

FIG. 1

Polyvinyl phenol resin

Novolak resin

Transmittance

5 Wavelength

FIG. 11

Microprocessor

10 FIG. 13

Microprocessor IP

FIG. 15

100: Pattern of IP mask is written and developed to form  
15 resist pattern.

101: IP resist master mask is completed.

101: IP-master mask

102: Product mask is exposed and developed.

103: Whether or not pattern transfer regions are dislocated  
20 from each other?

reproduction

104: Metal film of product mask is etched.

105: Product mask is completed.

25 FIG. 18

100: Pattern of IP mask is written and developed to form  
resist pattern.

101: IP resist master mask is completed.

10025457-122601

101: IP-master mask

102a: Product mask is exposed and developed.

103a: Whether or not pattern transfer regions are dislocated  
from each other?

5 reproduction

105a: Product resist mask is completed.

FIG. 20

100a: Pattern of IP mask is written and developed to form  
10 resist pattern.

100b: Pattern of IP mask is written and developed to form  
resist pattern.

101a: IP resist master mask is completed.

101b: Metal film of IP mask is etched.

15 101: IP-master mask

101c: IP master mask is completed.

101c: IP master mask

102a: Product mask is exposed and developed.

103a: Whether or not pattern transfer regions are dislocated  
20 from each other?

reproduction

105a: Product resist mask is completed.

FIG. 24

25 200: IP master mask

201: Intermediate master mask is exposed and developed.

202: Whether or not pattern transfer regions are dislocated  
from each other?

reproduction

203: Metal mask of intermediate master mask is etched.

204: Intermediate master mask is completed.

205: IP master mask is exposed and developed.

5 206: Whether or not pattern transfer regions are dislocated  
from each other?

reproduction

207: Product partial resist mask is completed.

10025457-122601  
10 FIG. 27

Old product mask

300: Resist is removed and washed.

301: Intermediate master mask is restored.

205: IP master mask is exposed and developed.

15 206: Whether or not pattern transfer regions are dislocated  
from each other?

reproduction

207: Product partial resist mask is completed.

FIG. 1

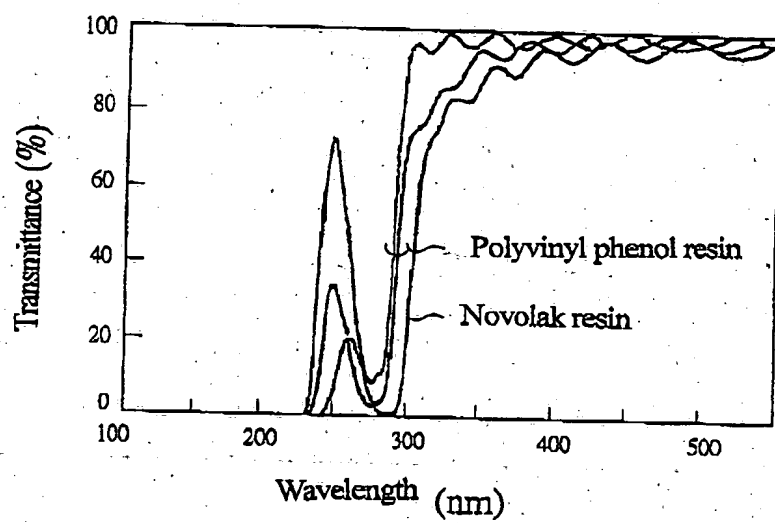
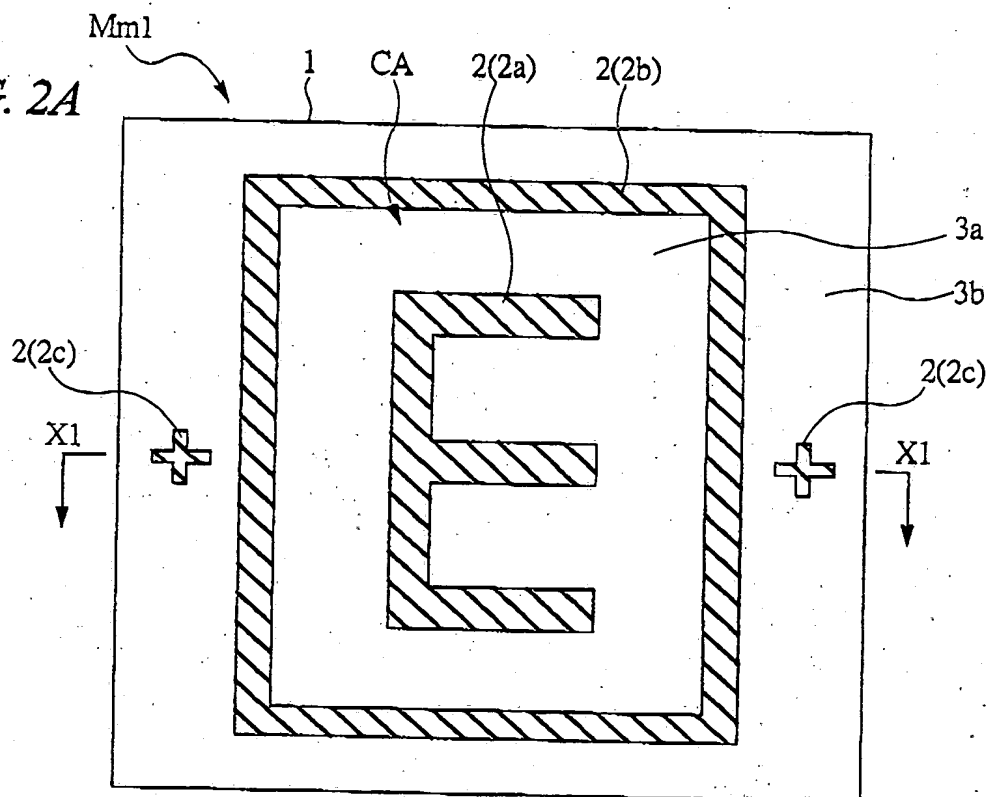
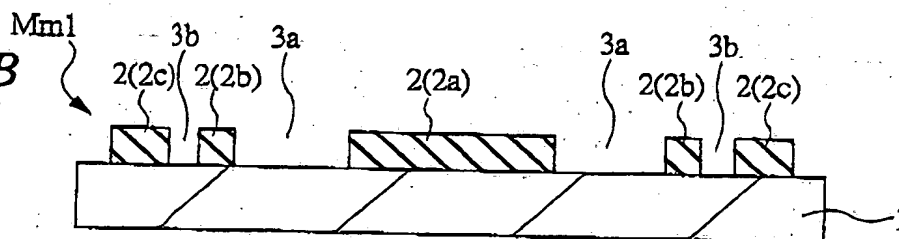


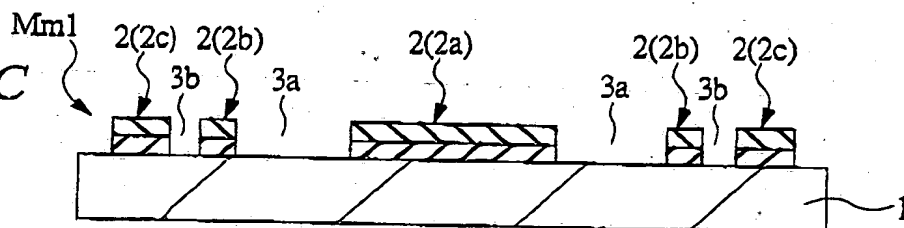
FIG. 2A



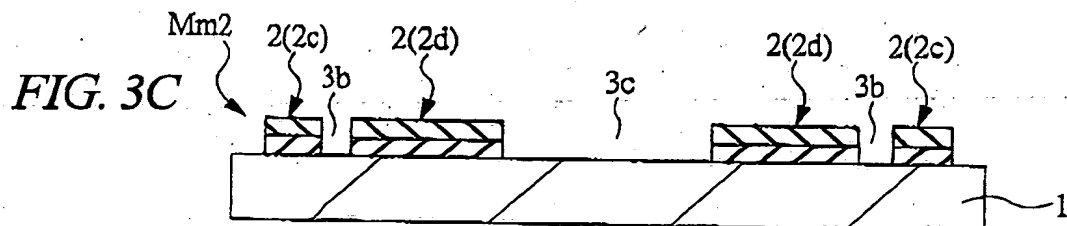
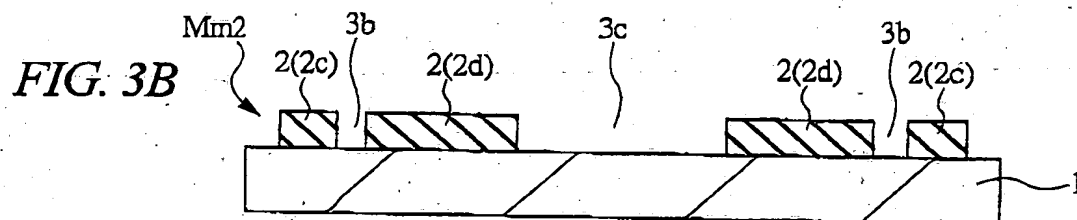
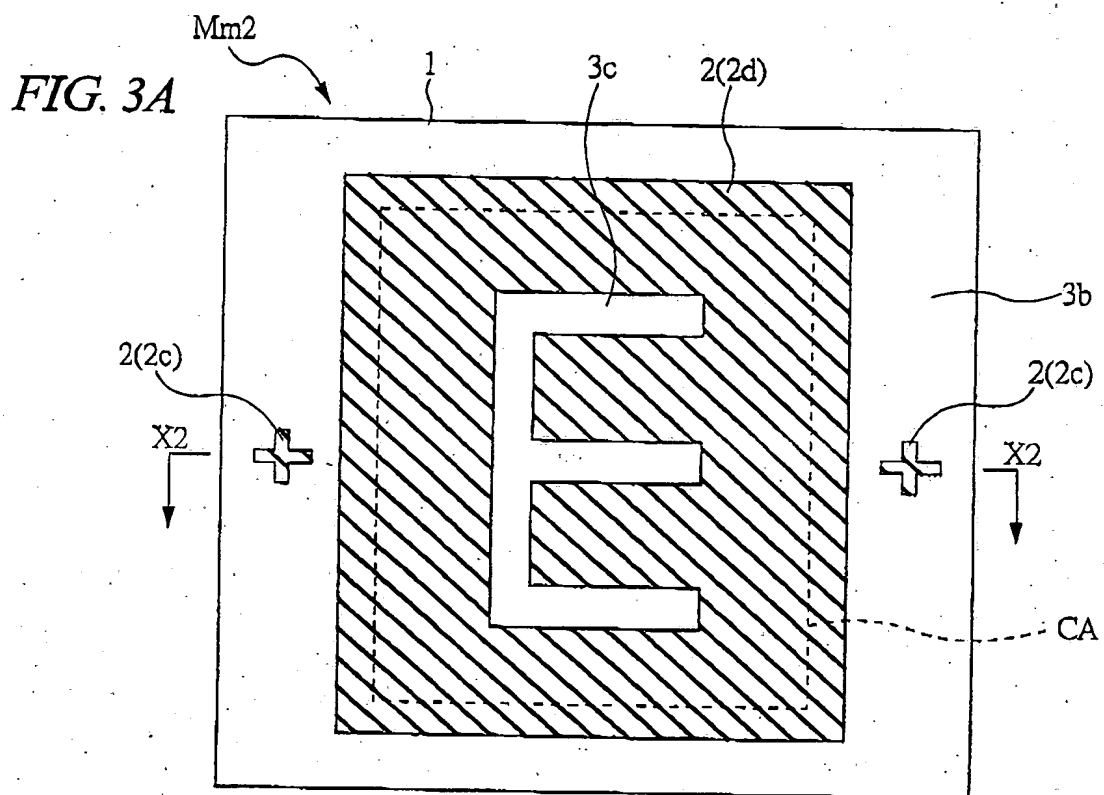
**FIG. 2B**



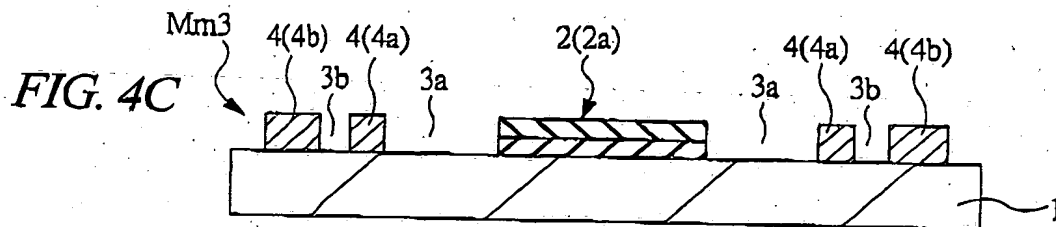
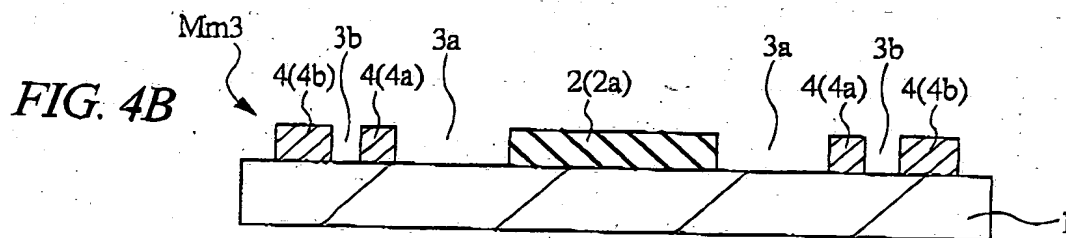
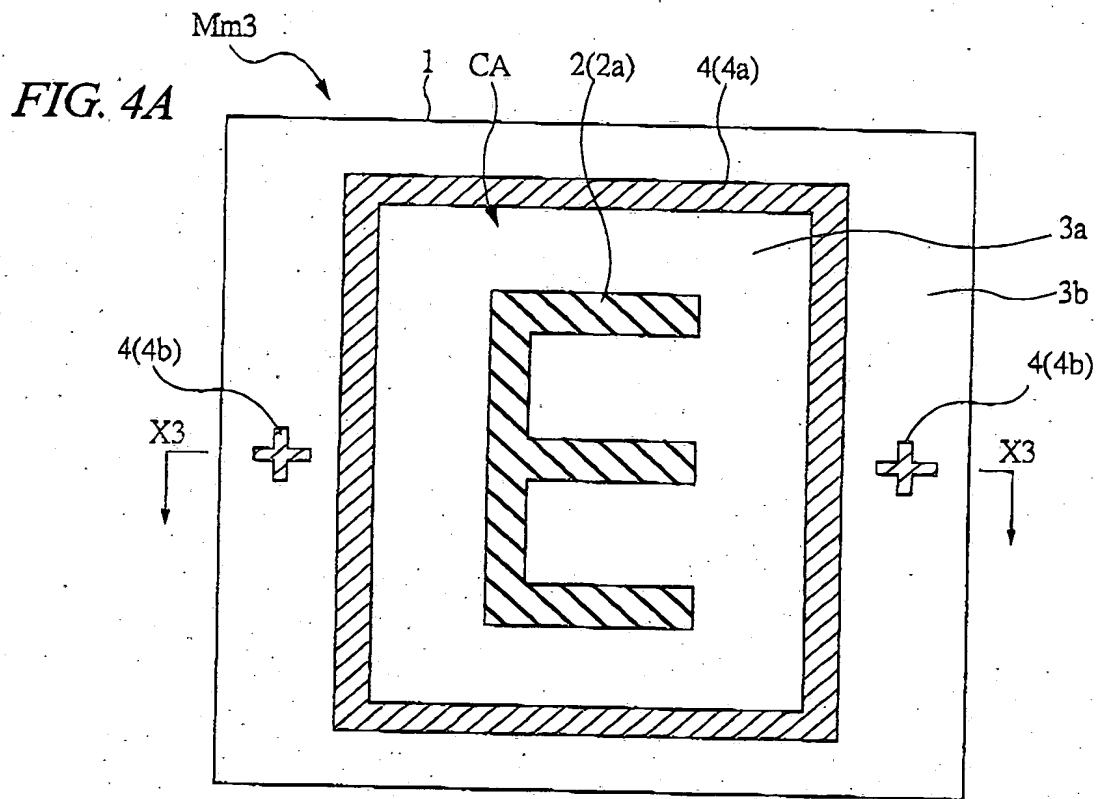
**FIG. 2C**

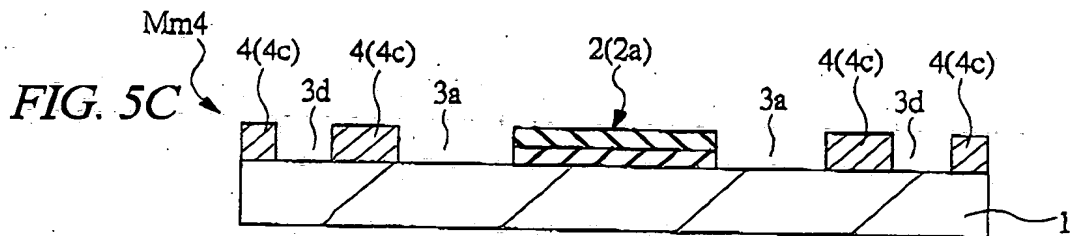
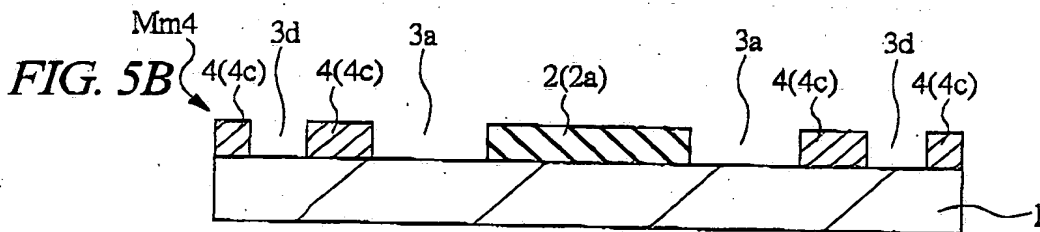
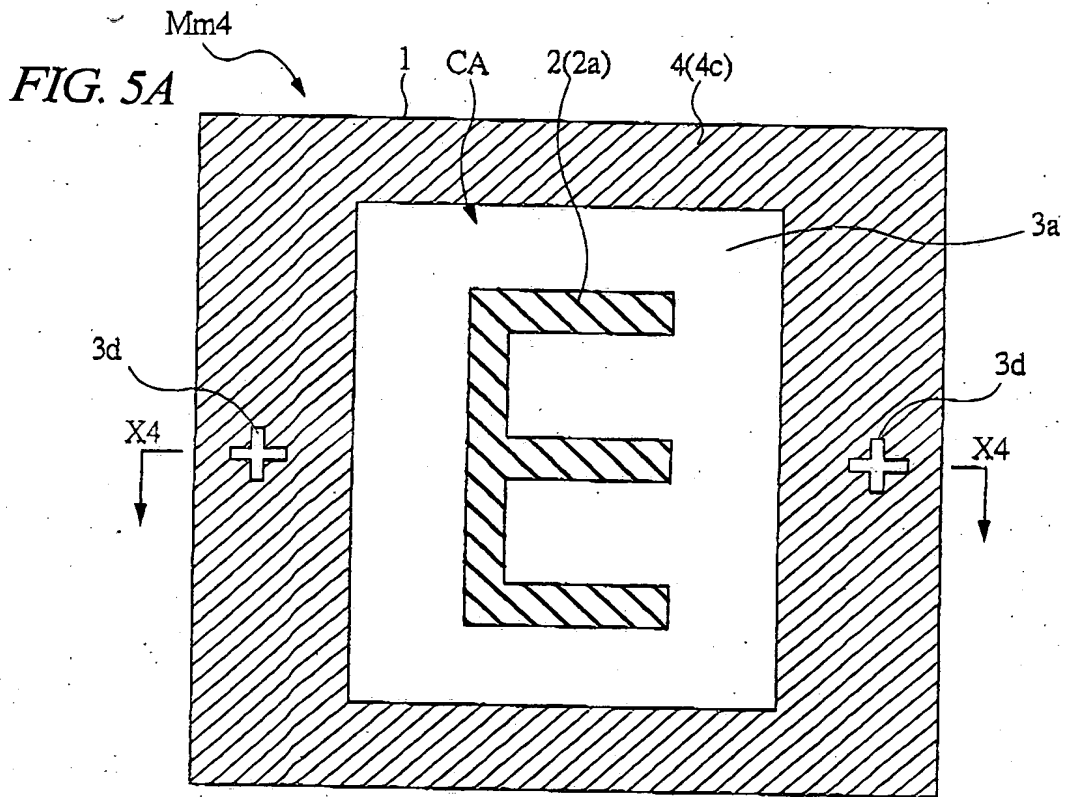


10025457-12601

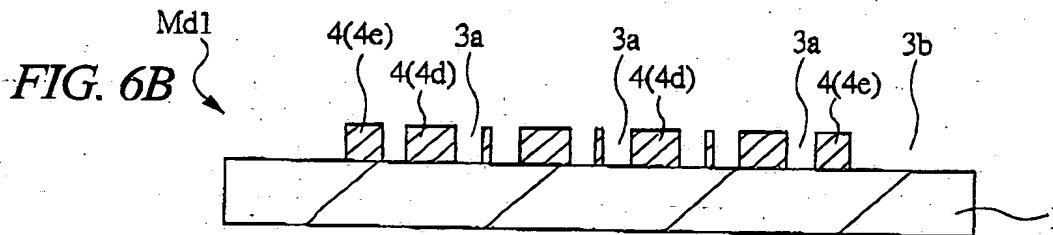
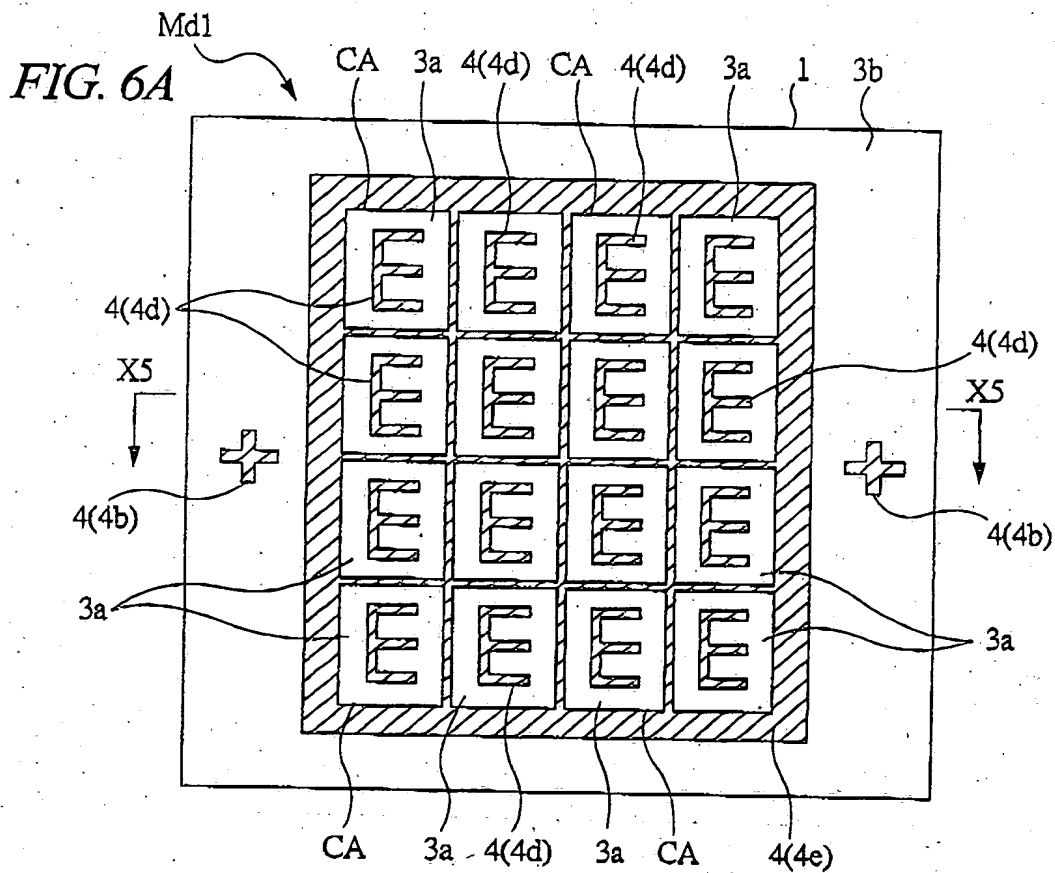


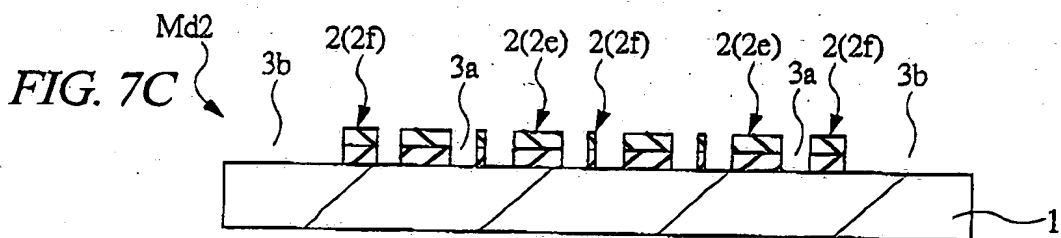
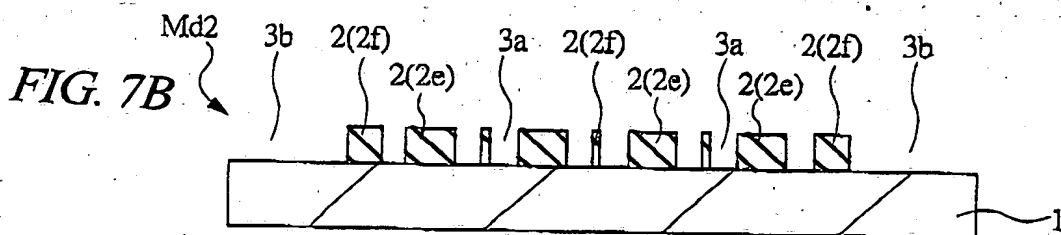
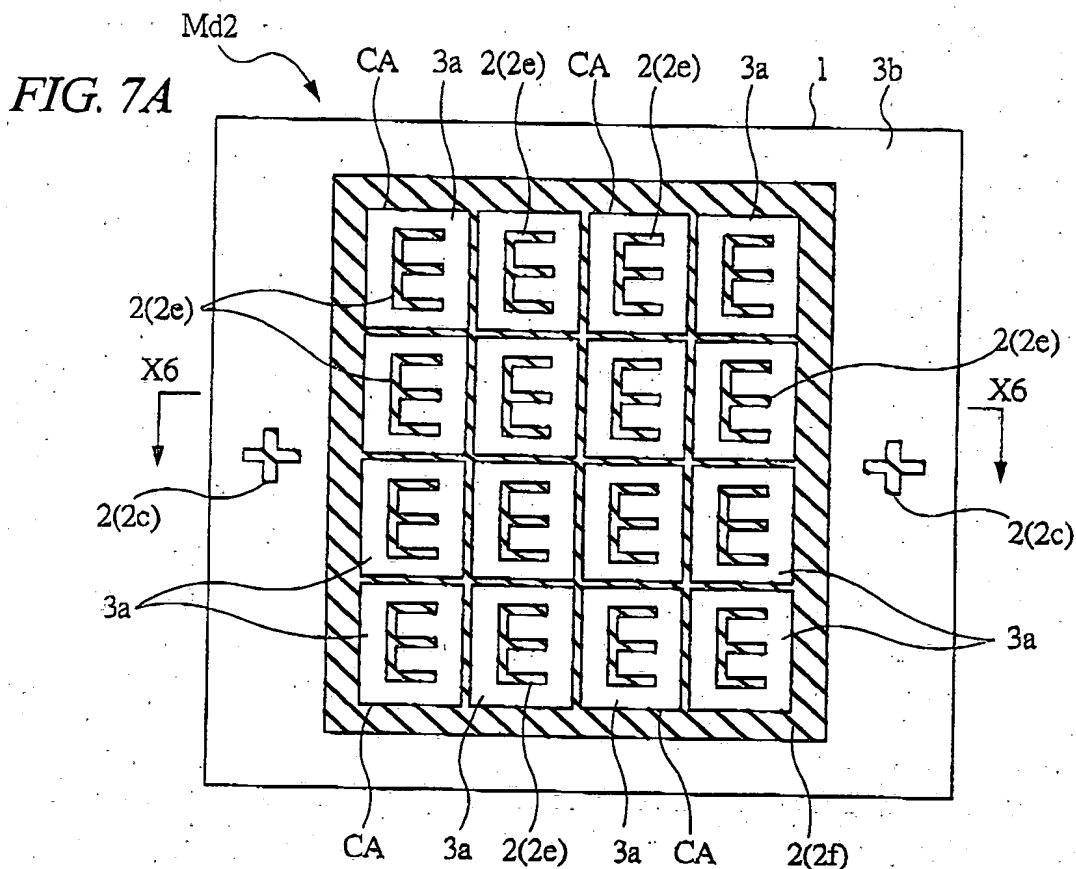
1005457-12601











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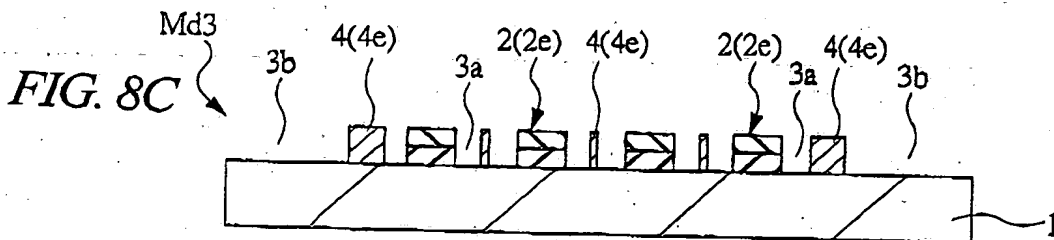
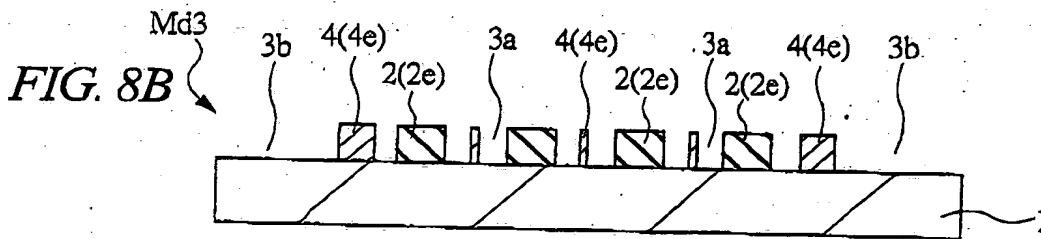
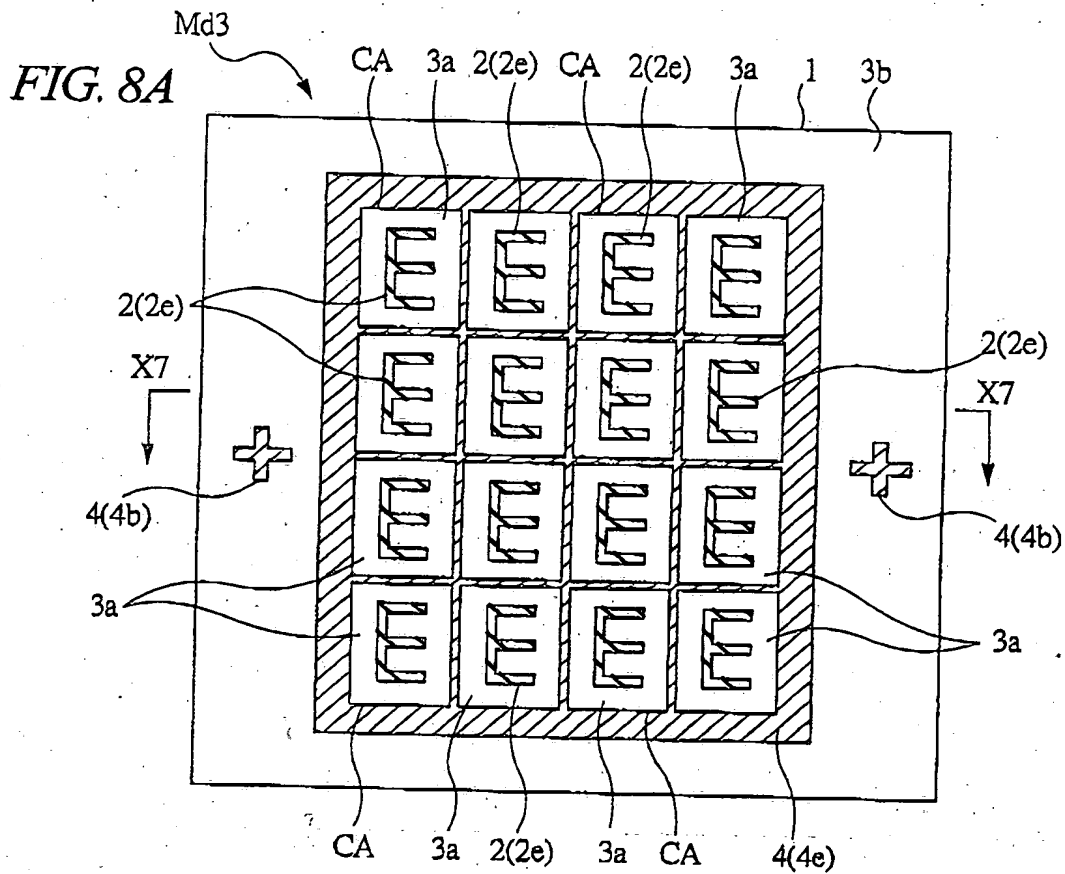


FIG. 9A

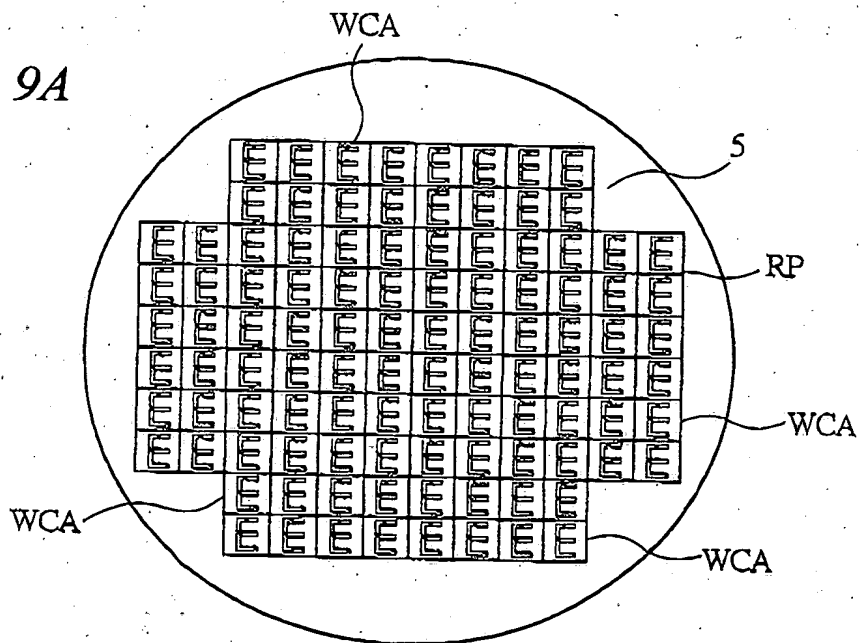


FIG. 9B

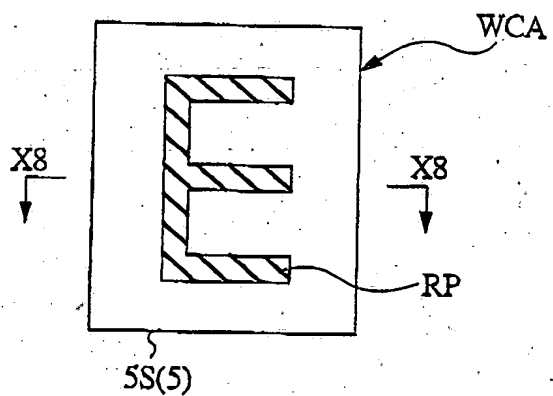


FIG. 9C

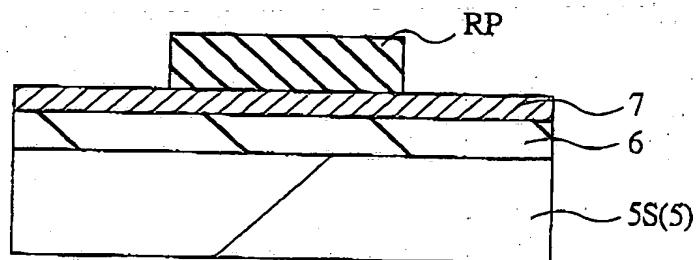
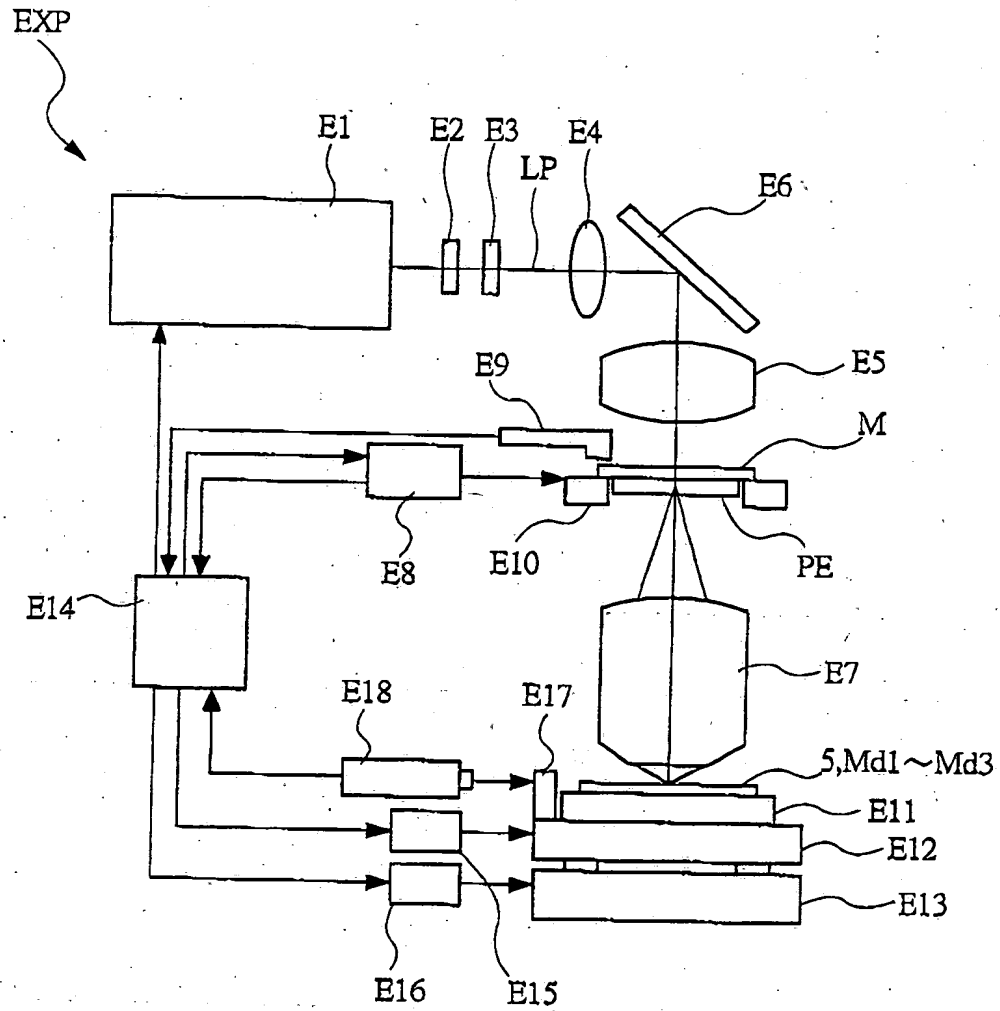
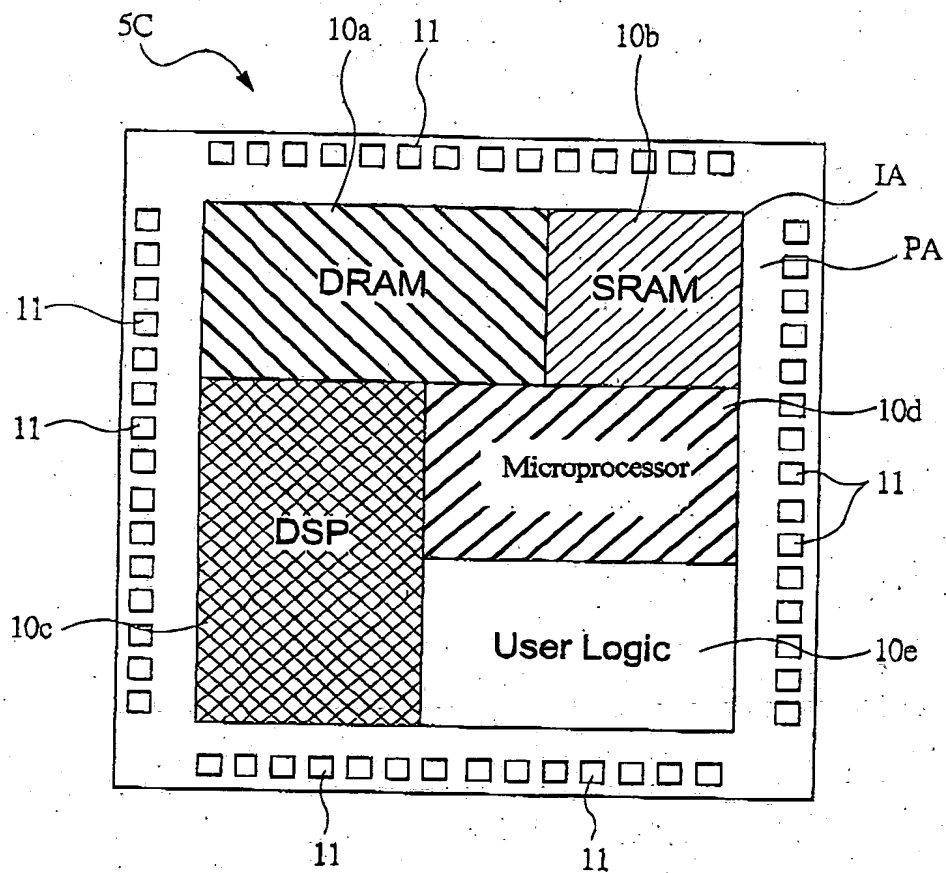


FIG. 10



10025457-122601

FIG. 11



10025457.1 22604

10025457-132601

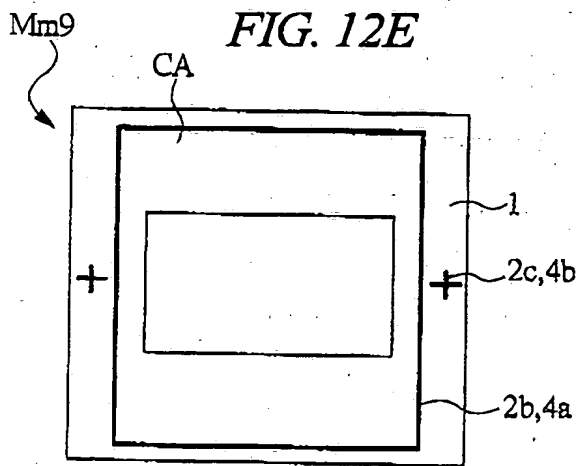
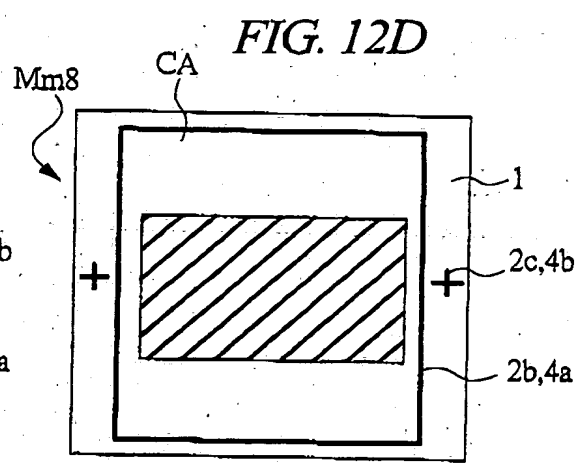
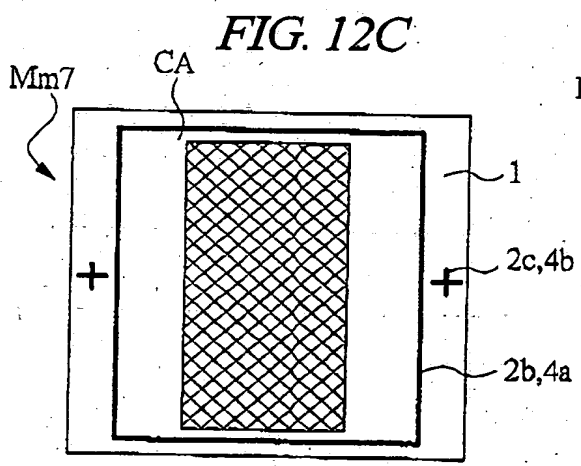
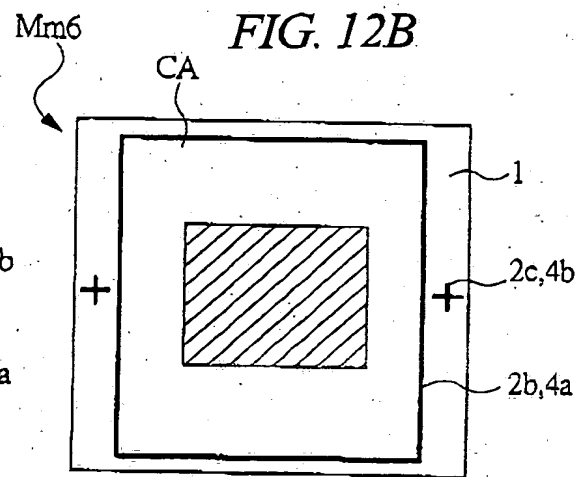
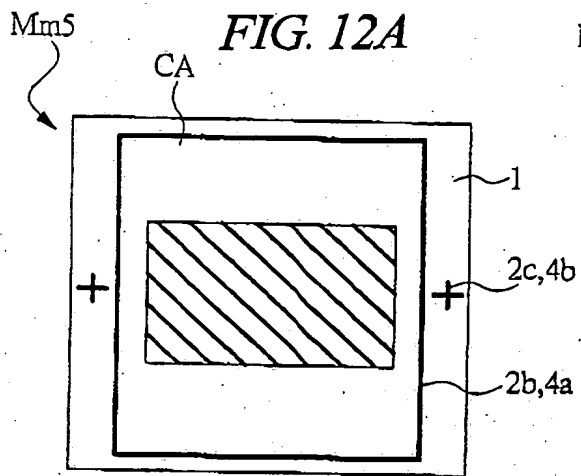


FIG. 13

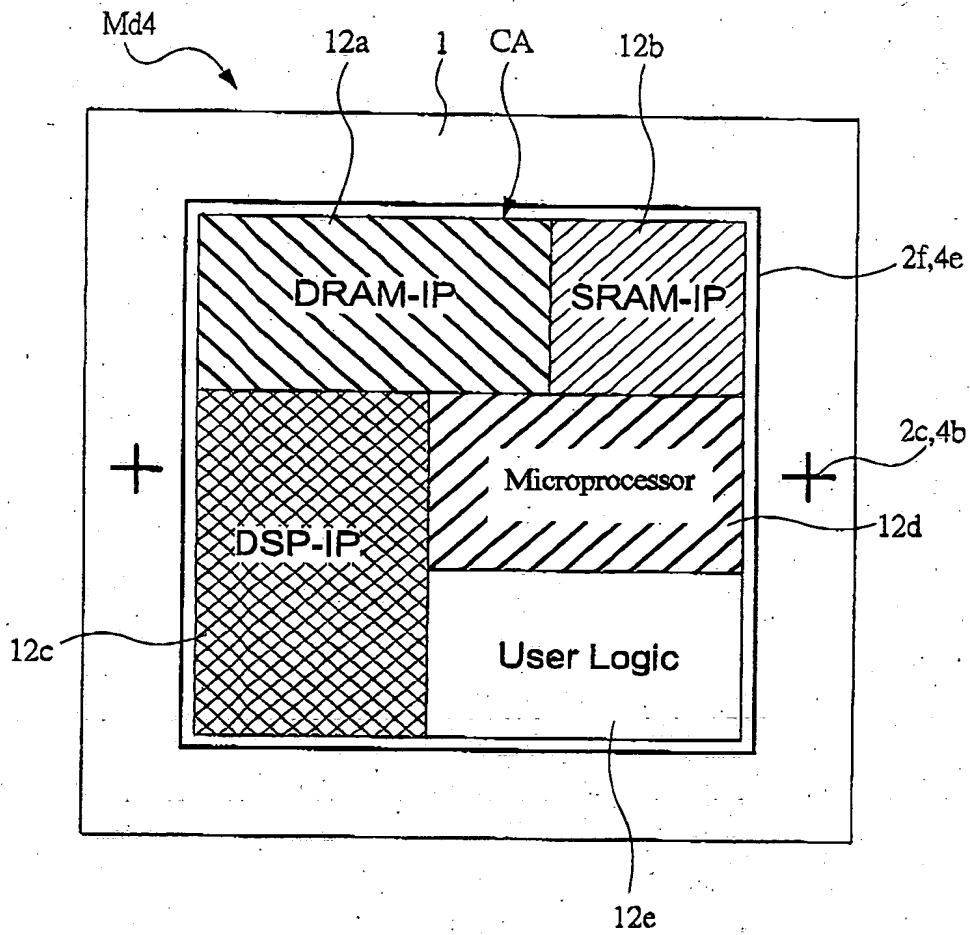
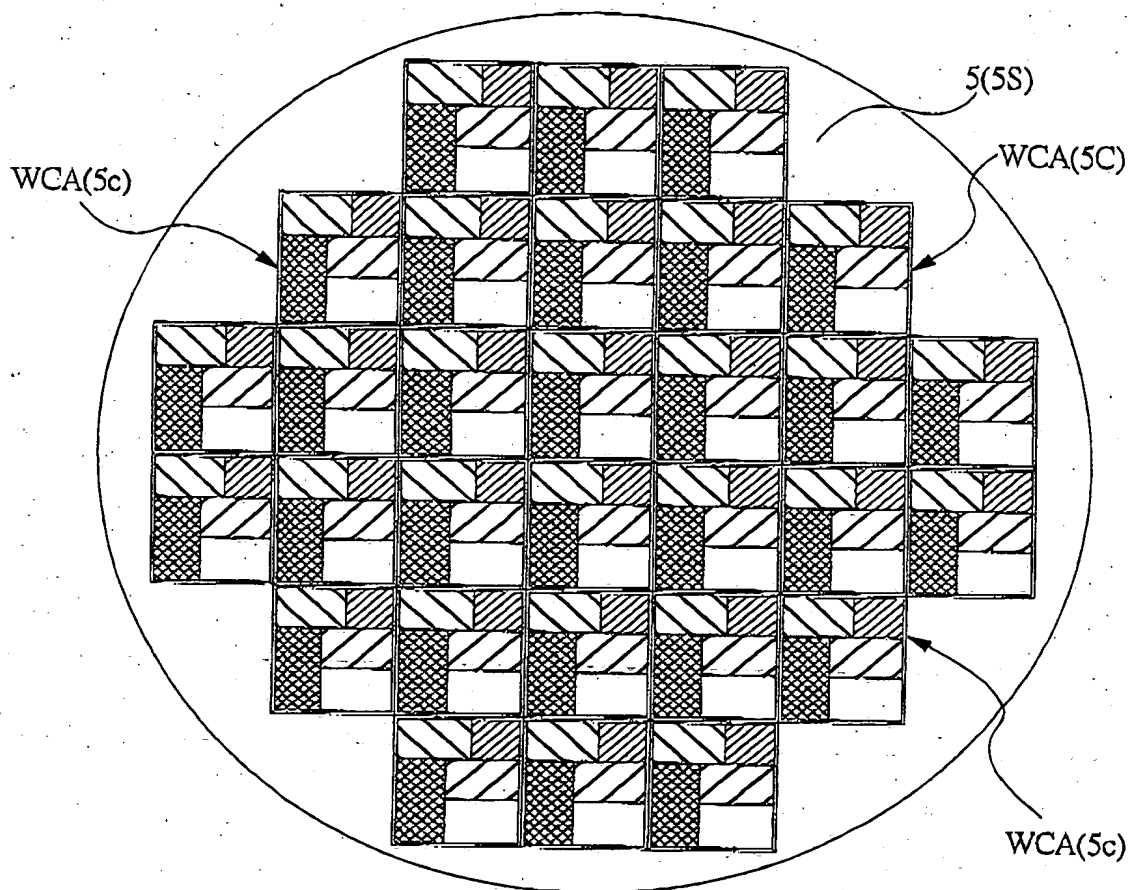


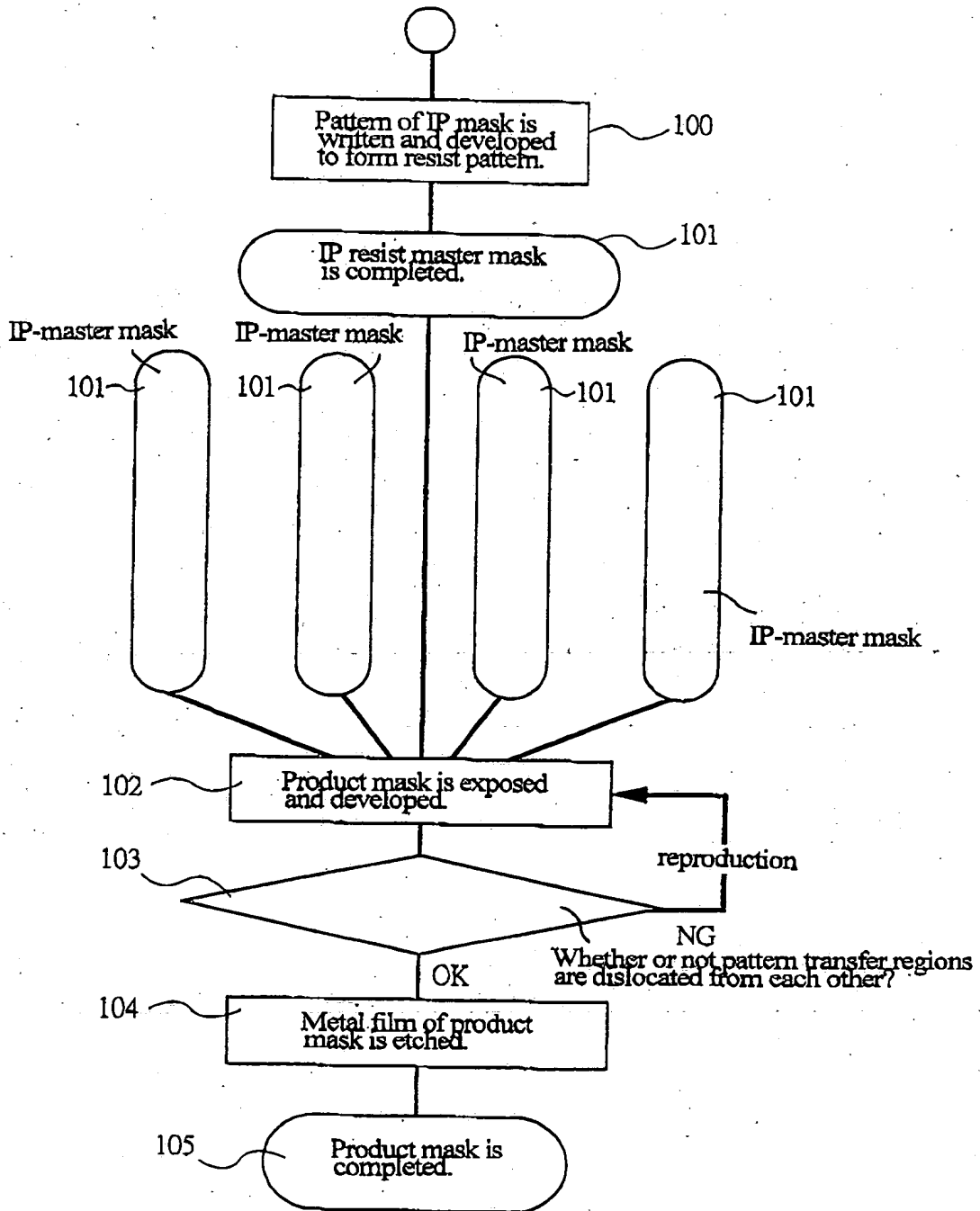


FIG. 14



10025457-122601

FIG. 15



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10025457.122601

FIG. 16A

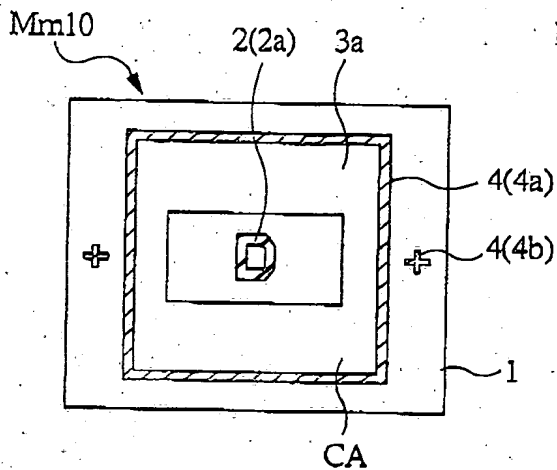


FIG. 16B

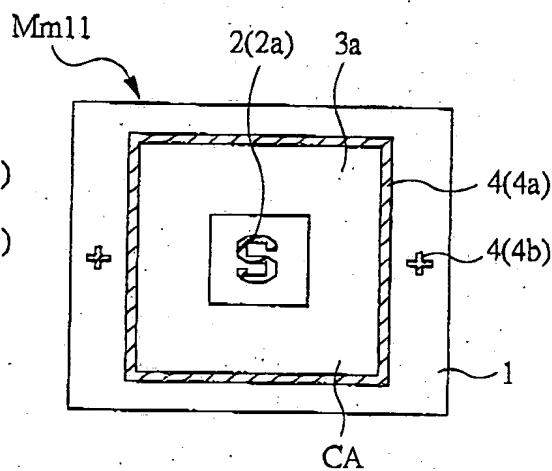


FIG. 16C

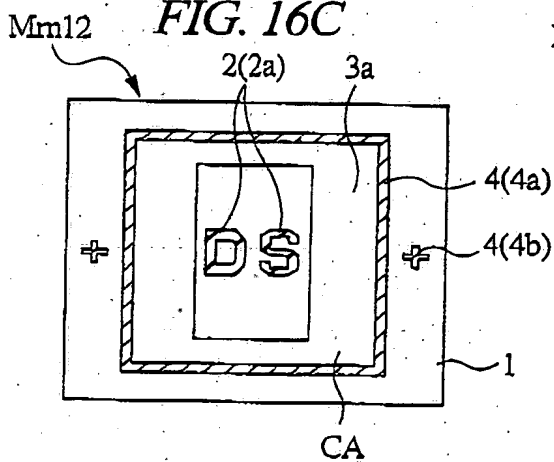


FIG. 16D

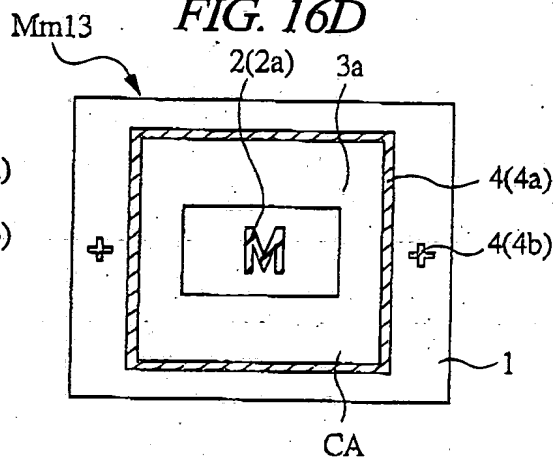


FIG. 16E

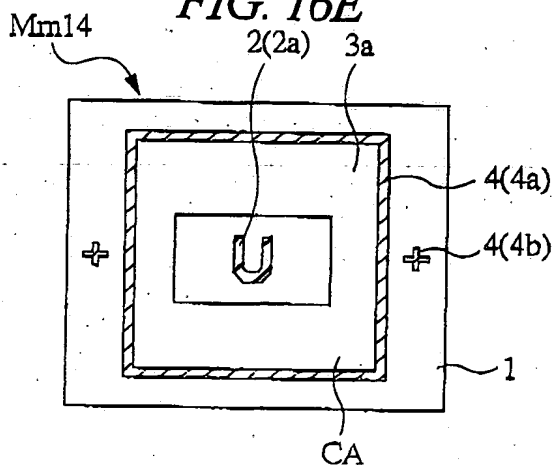
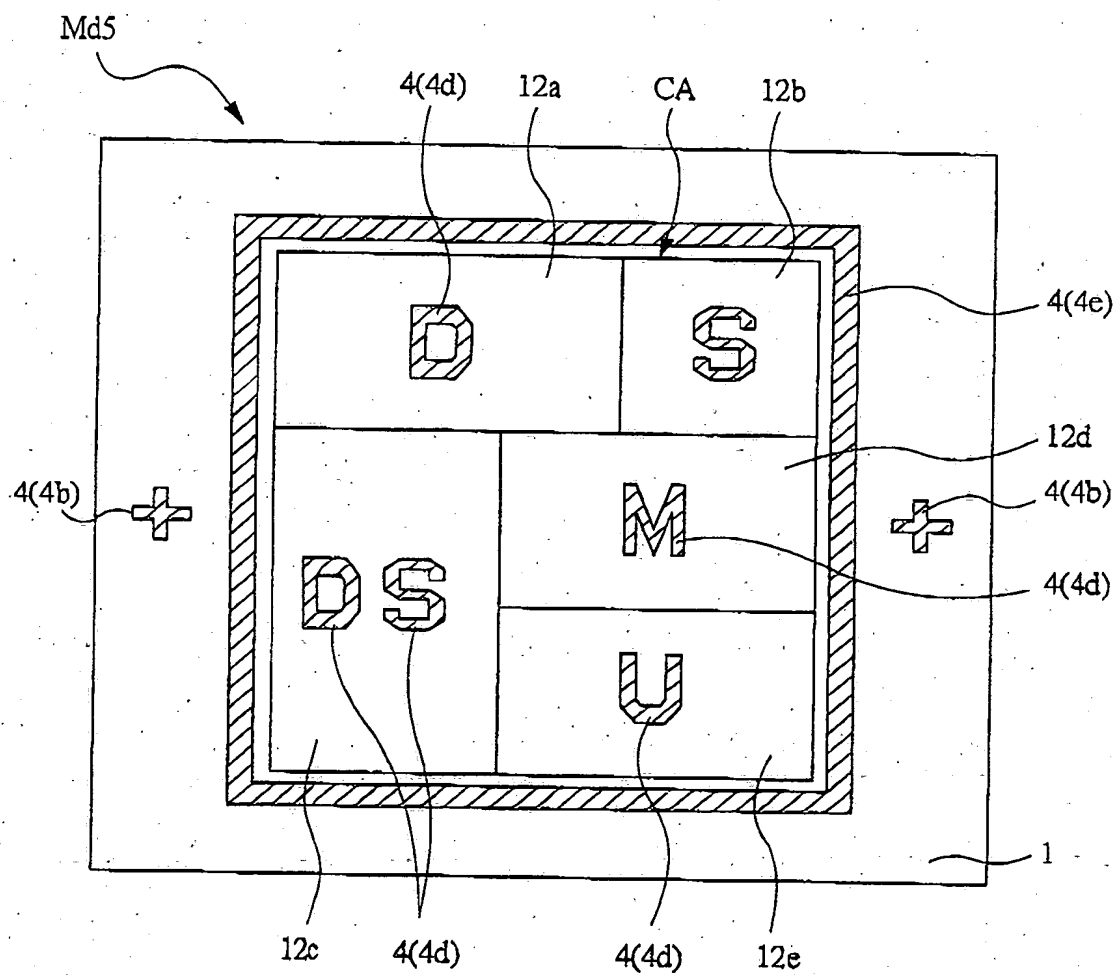


FIG.17



1006457-12604

FIG. 18

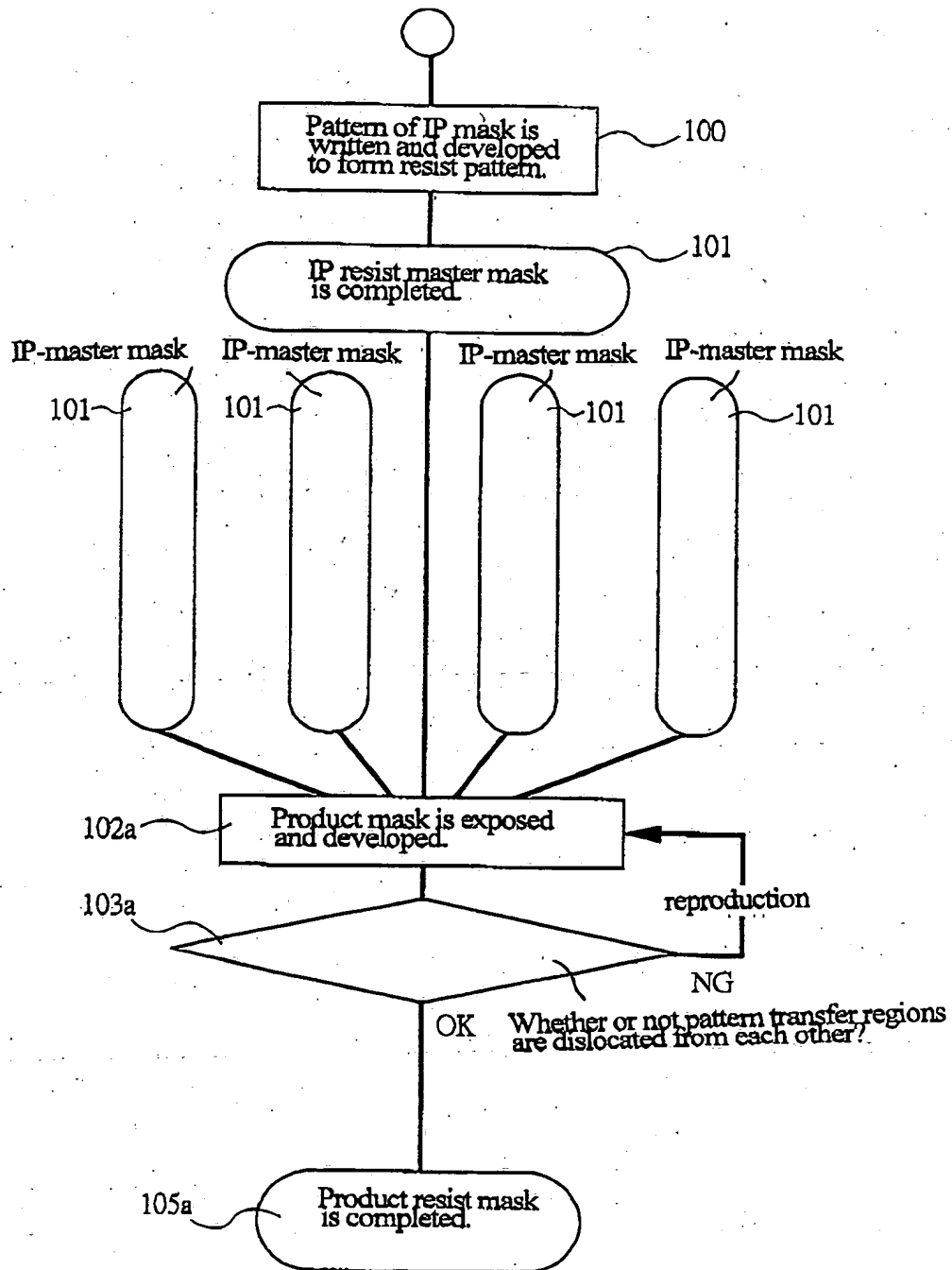


FIG. 18

**FIG. 19**

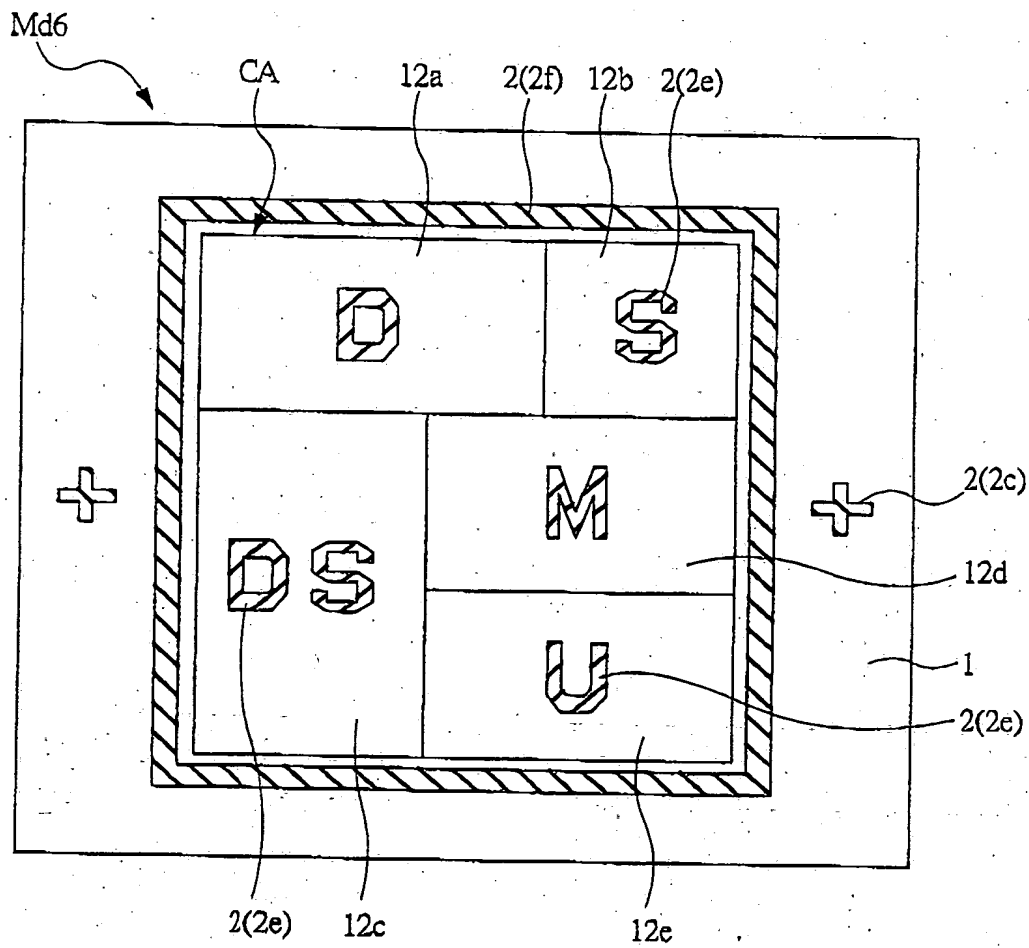
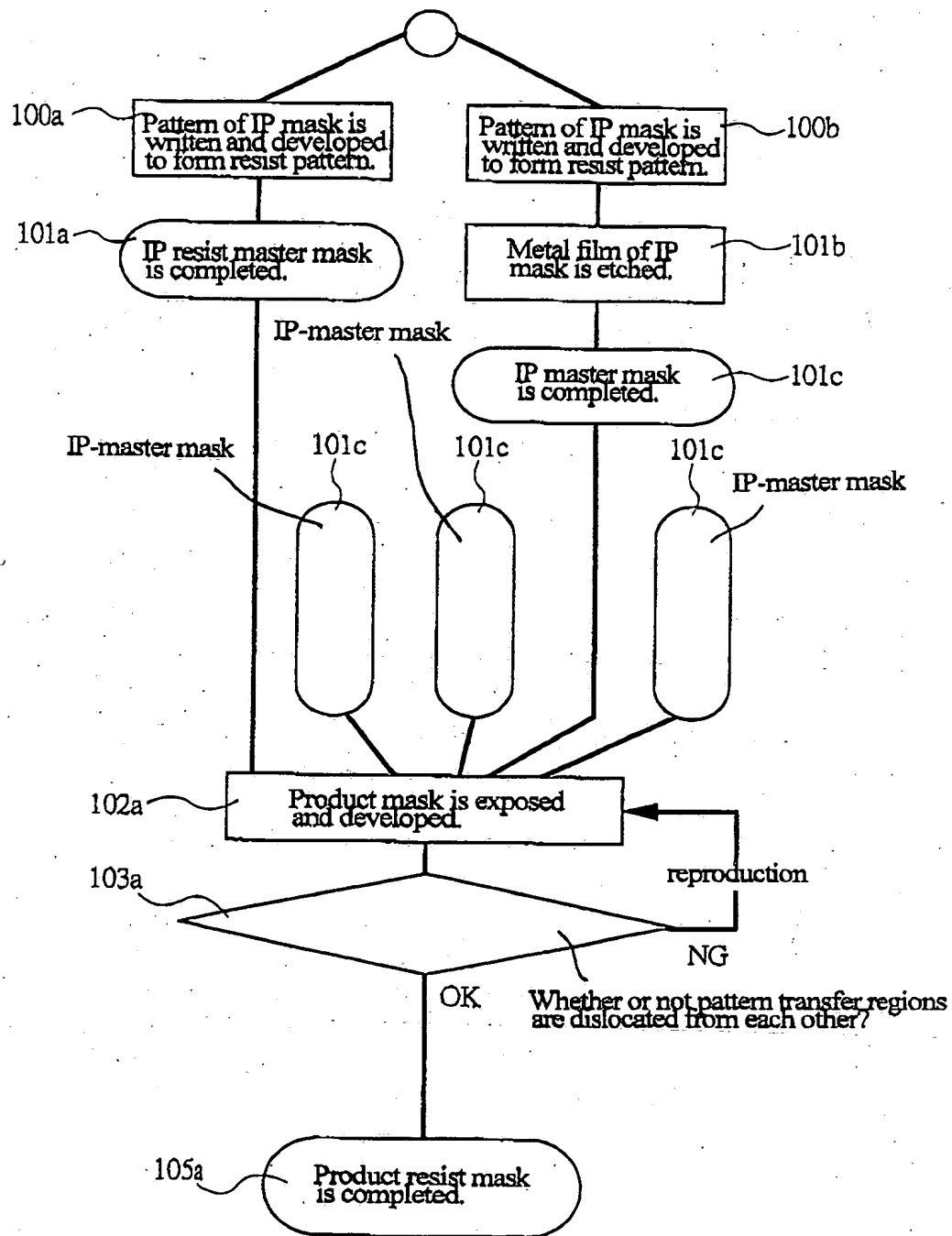


FIG. 20



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FIG. 21A

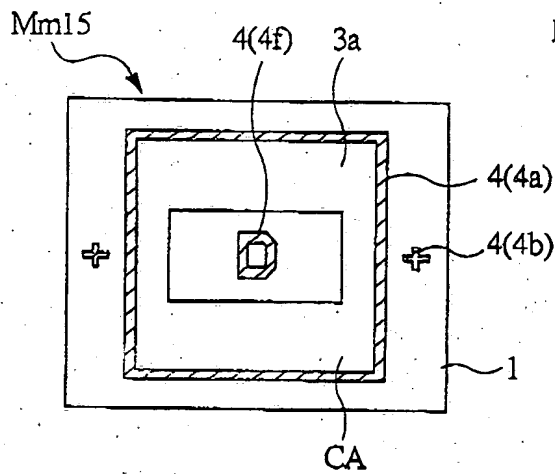


FIG. 21B

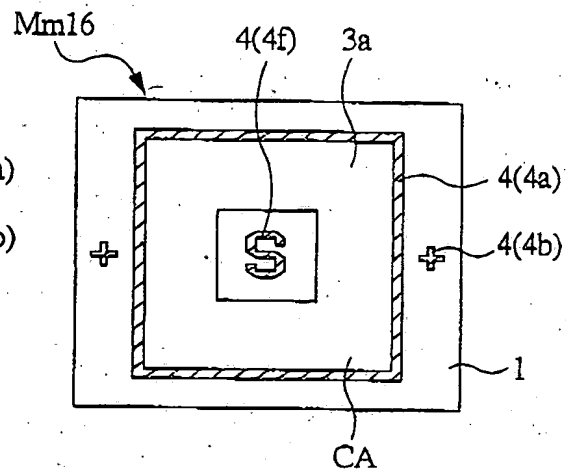


FIG. 21C

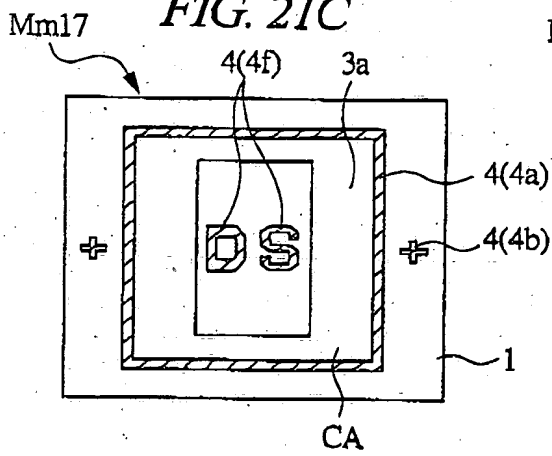


FIG. 21D

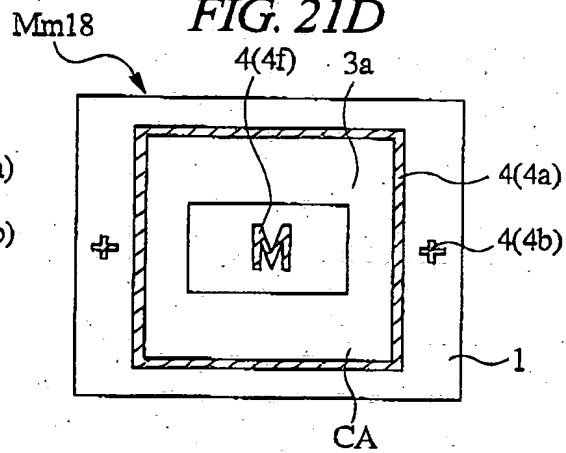


FIG. 21E

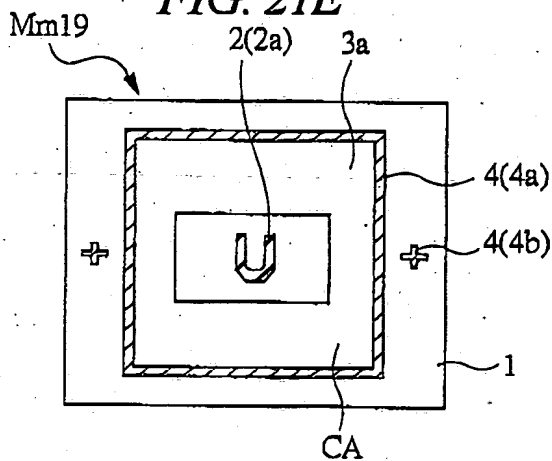




FIG. 22A

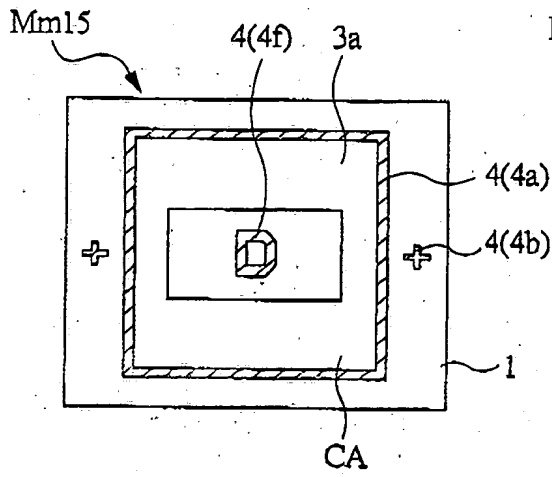


FIG. 22B

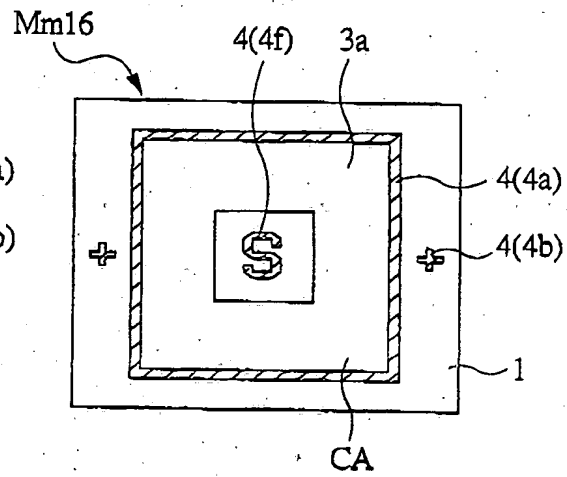


FIG. 22C

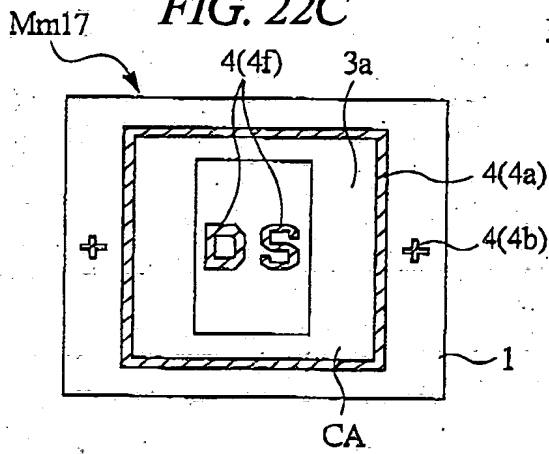


FIG. 22D

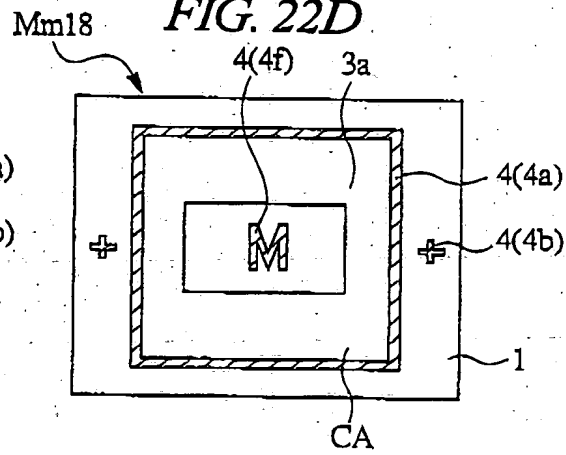
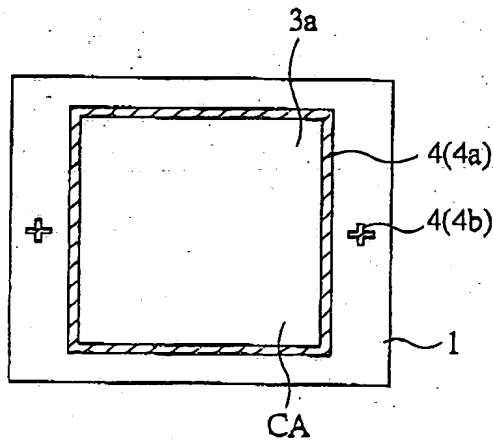


FIG. 22E



10065457-122604

FIG. 23A

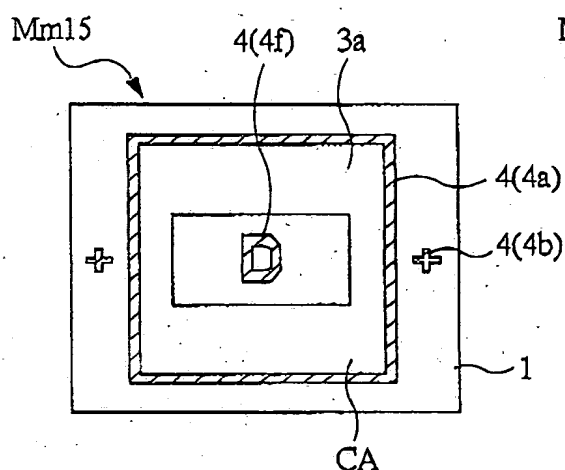


FIG. 23B

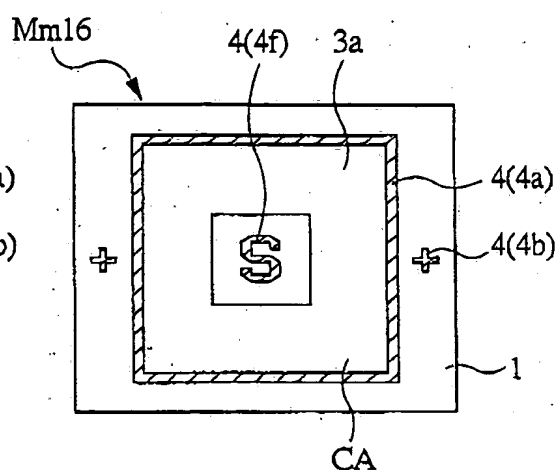


FIG. 23C

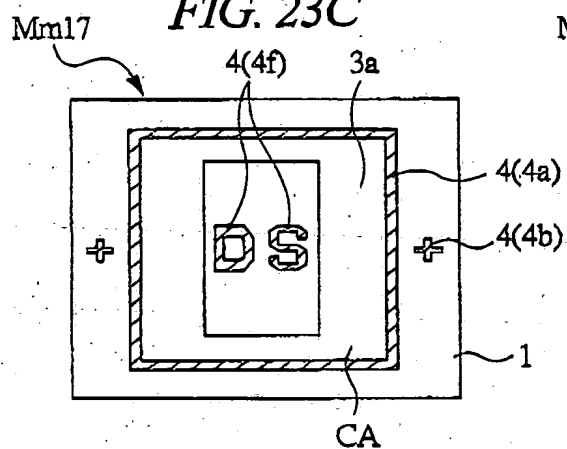


FIG. 23D

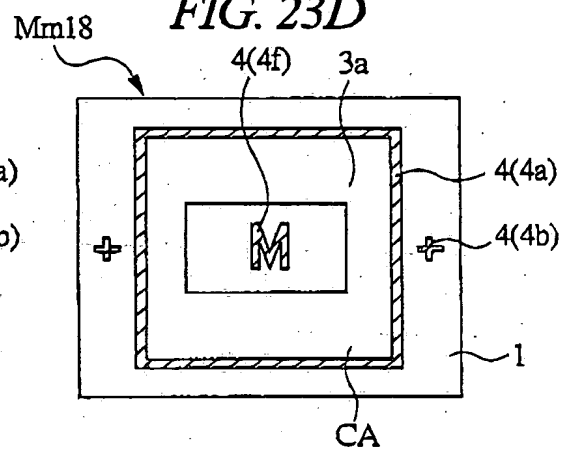


FIG. 23E

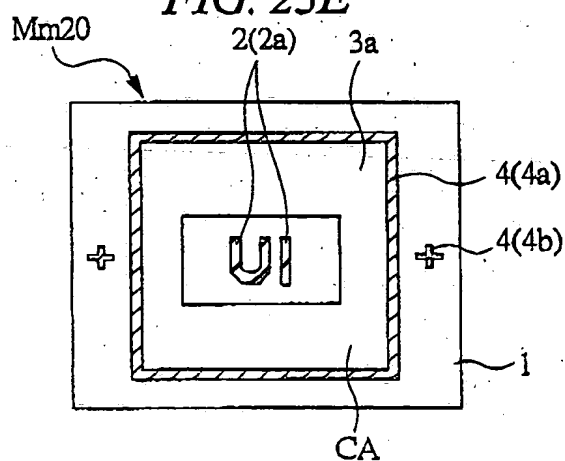
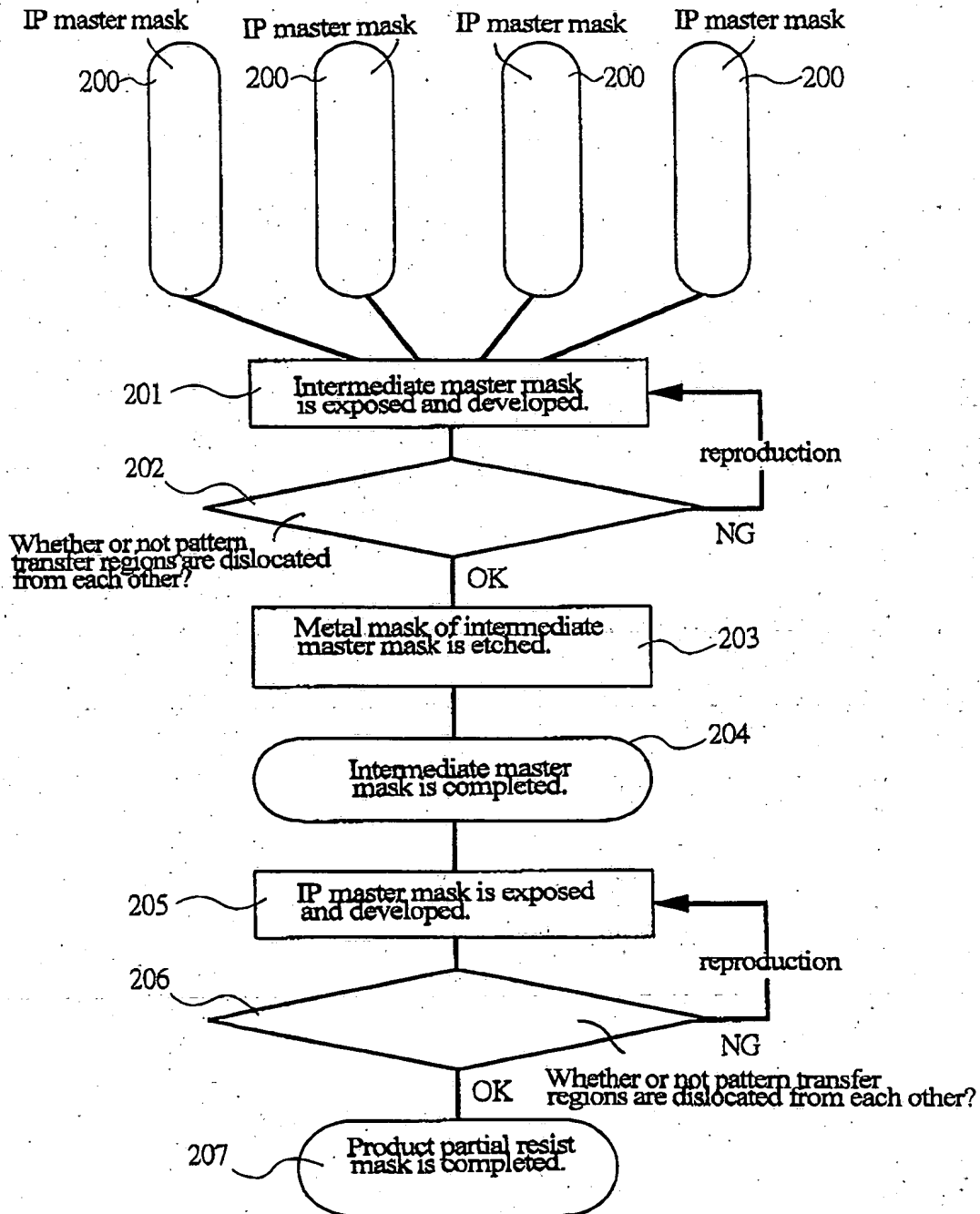


FIG. 24



10025457-12604  
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FIG. 25

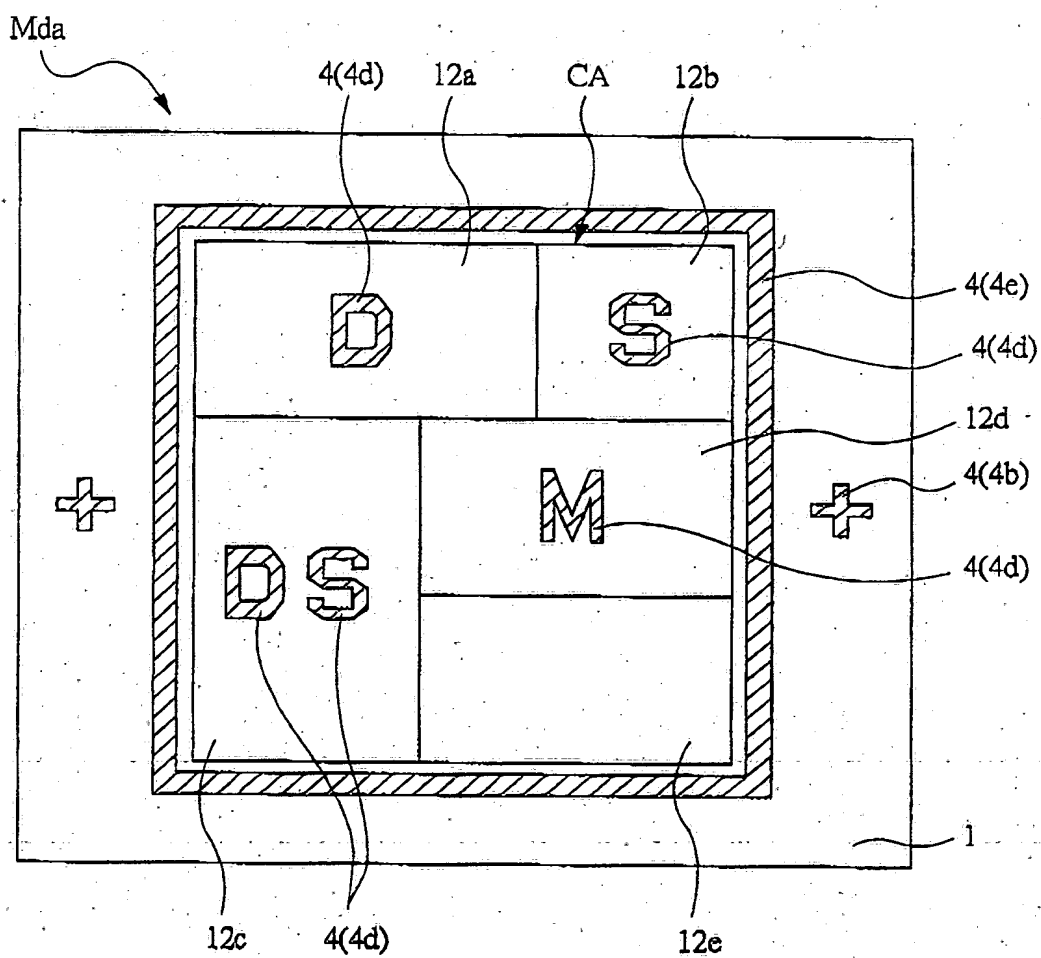


FIG. 26

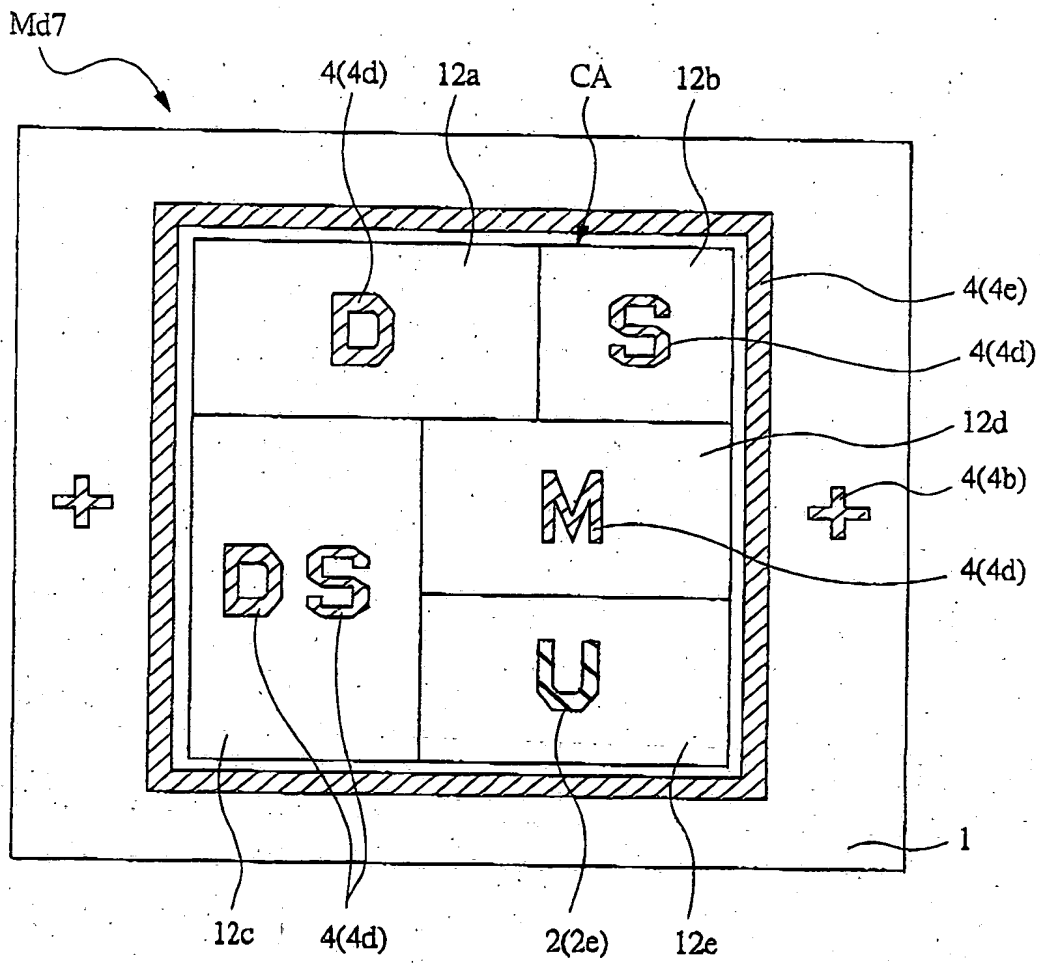
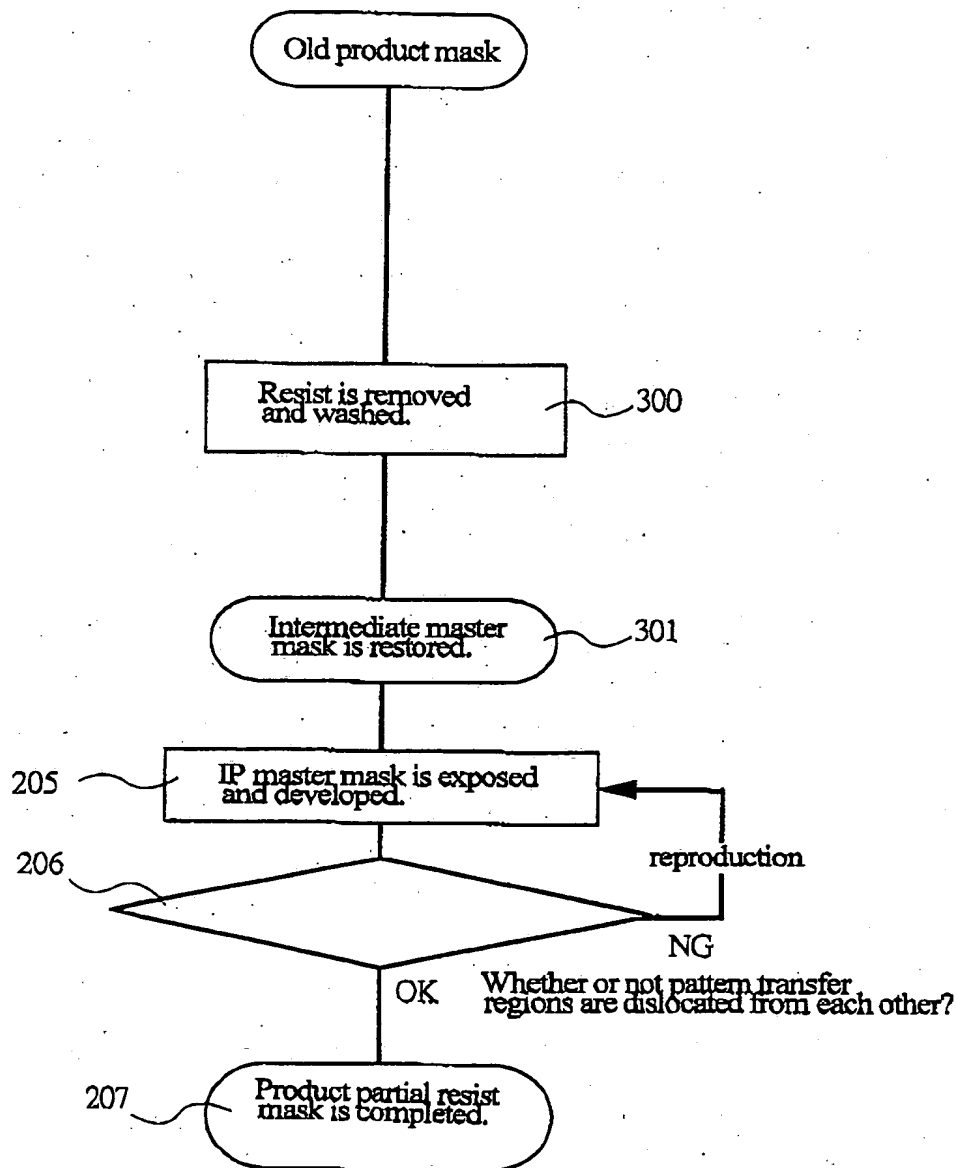


FIG. 27



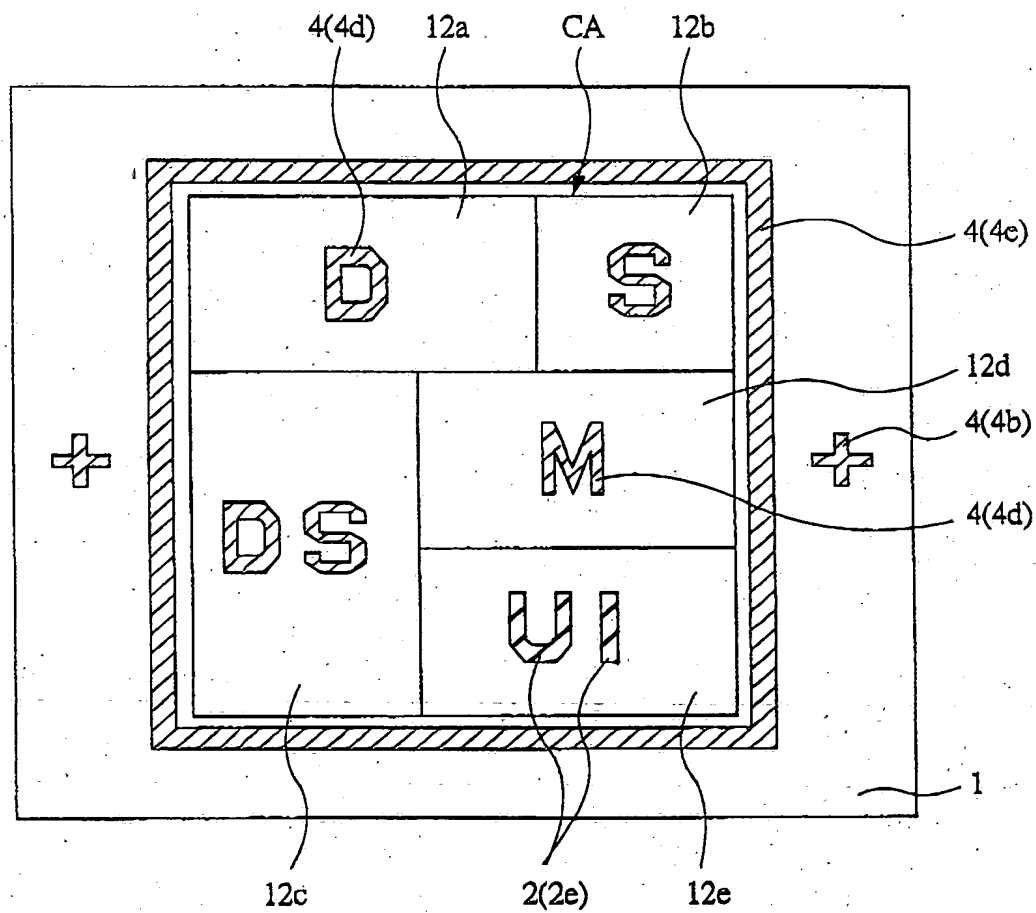
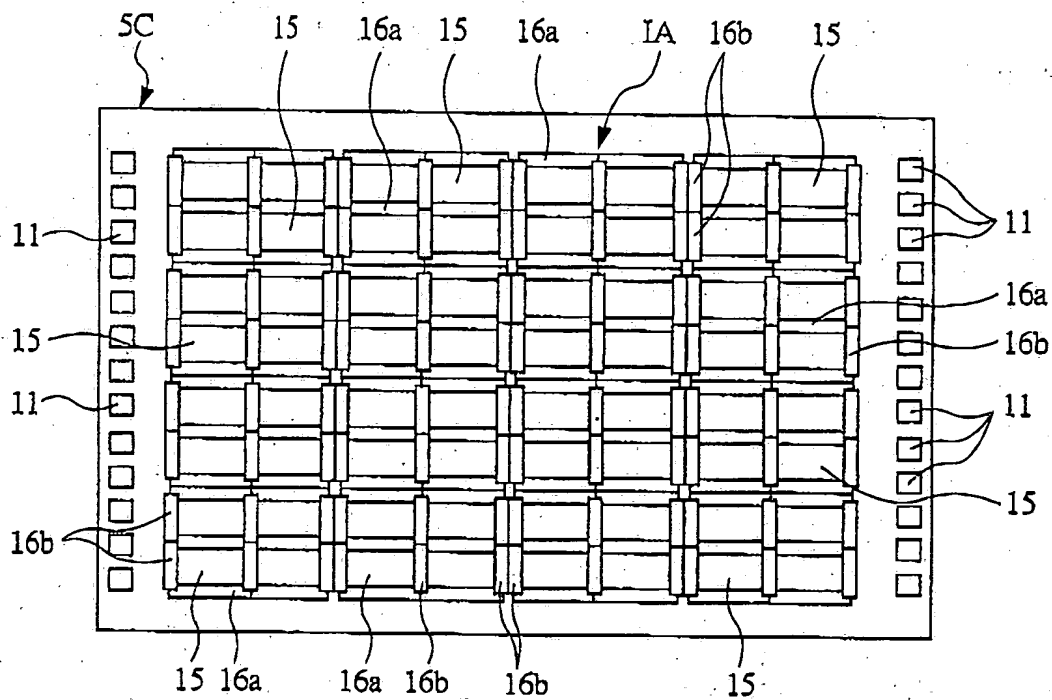


FIG. 29





10025457-122601

FIG. 30A

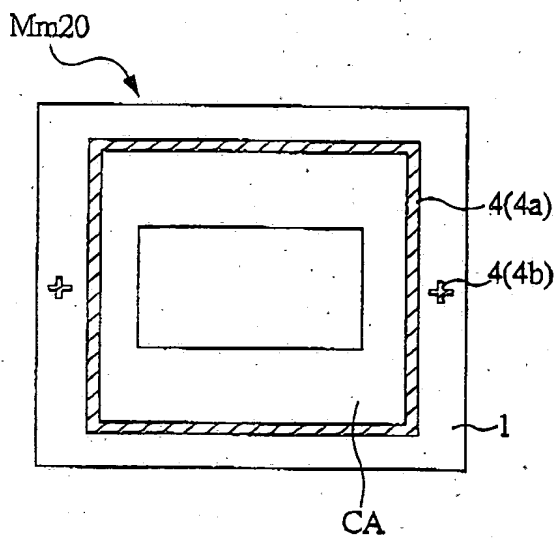


FIG. 30B

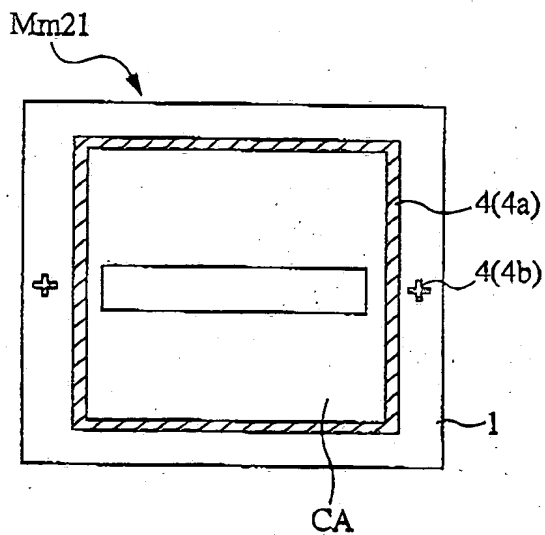


FIG. 30C

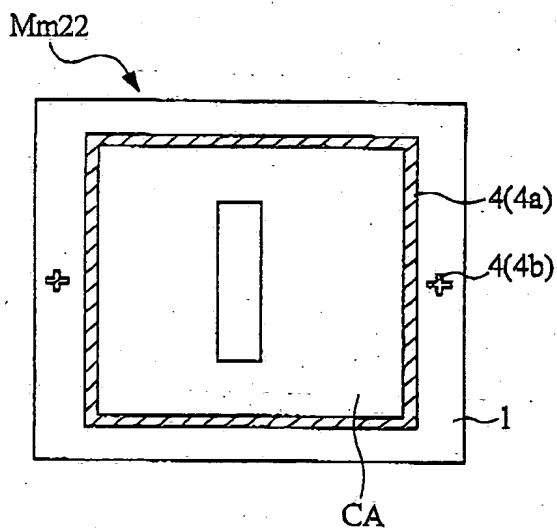
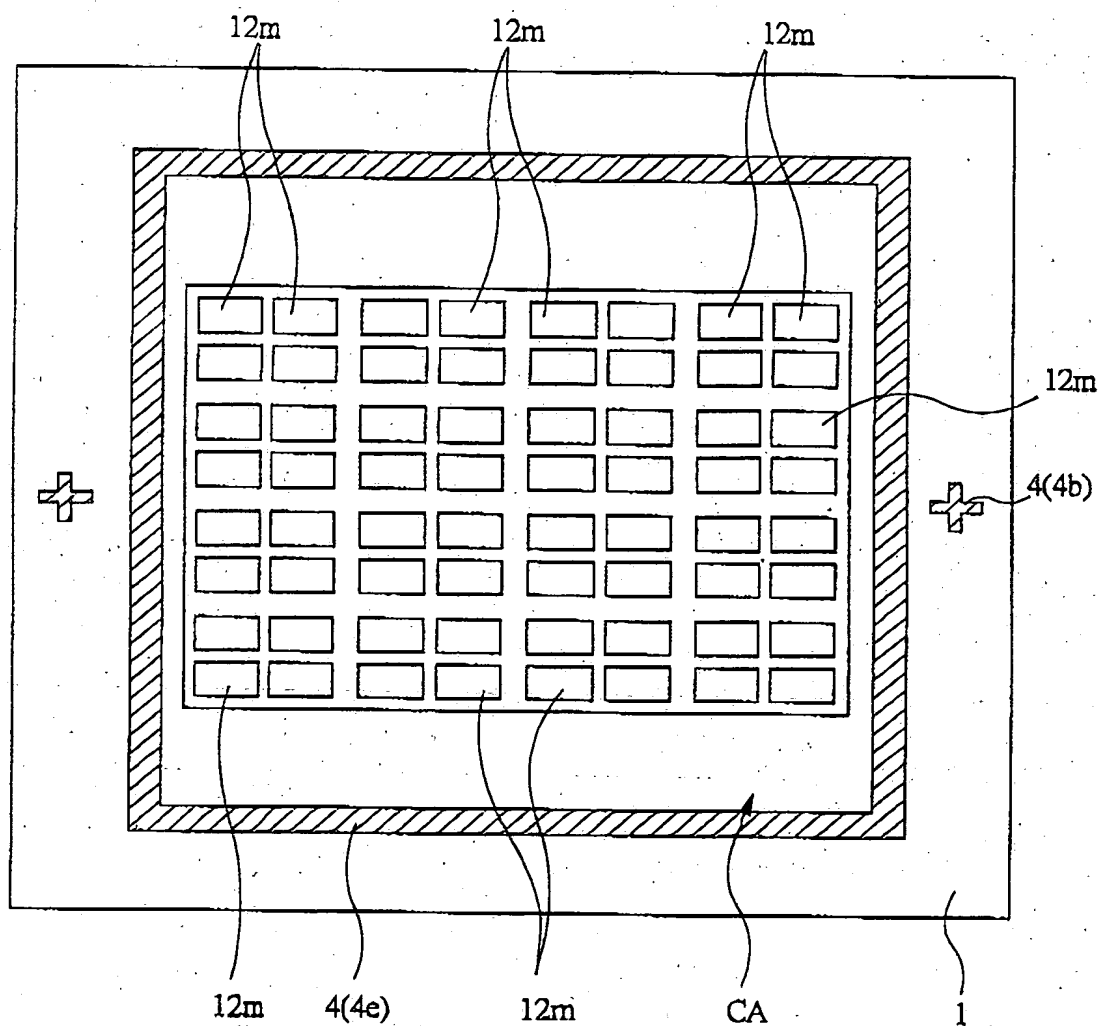


FIG. 31



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